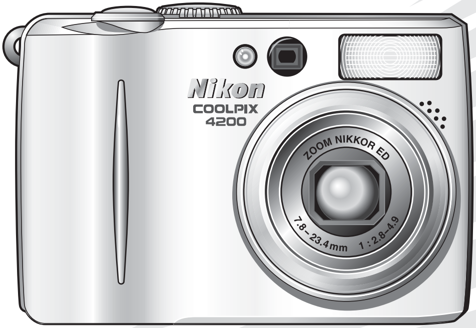
Nikon

En

The Nikon Guide to Digital Photography with the

COOLPIX 4200

DIGITAL CAMERA


Nikon
COOLPIX
4200
ZOOM NIKKOR ED
7.8–23.4mm 1:2.8–4.9

CE

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For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:

⚠ This icon marks warnings, information that should be read before using this product to prevent possible injury.

WARNINGS

⚠ Do not look at the sun through the viewfinder

Viewing the sun or other strong light source through the viewfinder could cause permanent visual impairment.

⚠ Turn off immediately in the event of malfunction

Should you notice smoke or an unusual smell coming from the equipment or from the AC adapter kit (available separately), unplug the AC adapter kit and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing the battery, take the equipment to a Nikon-authorized service representative for inspection.

⚠ Do not use in the presence of flammable gas

Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

⚠ Do not place strap around the neck of an infant or child

Placing the camera strap around the neck of an infant or child could result in strangulation.

⚠ Do not disassemble

Touching the product's internal parts could result in injury. In the event of malfunction, the product should be repaired only by a qualified technician. Should the product break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection after unplugging the AC adapter kit and removing the battery.

⚠ Observe proper precautions when handling batteries

Batteries may leak or explode if improperly handled. Observe the following precautions when handling a battery for use in this product:

- Before replacing the battery, turn the product off and make sure the power-on lamp has gone out. If you are using an AC adapter kit, be sure it is unplugged.
- Use only rechargeable Nikon EN-EL5 lithium-ion batteries (supplied).
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble batteries.
- Do not expose batteries to flame or to excessive heat.
- Do not immerse in or expose to water.
- Do not transport or store with metal objects such as necklaces or hairpins.
- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Immediately after use, or when the product is used on battery power for an extended period, the battery may become hot. Before removing the battery, turn the camera off and allow the battery to cool.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.

Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

Keep out of reach of children

Particular care should be taken to prevent infants from putting the batteries or other small parts into their mouths.

Removing memory cards

Memory cards may become hot during use. Observe due caution when removing memory cards from the camera.

CD-ROMs

The CD-ROMs on which the software and manuals are distributed should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

Observe caution when operating the flash

Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than one meter (39")from the subject.

Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury due to broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Notices

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort has been made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Notice for customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Nikon E4200
Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user’s authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Notice for customers in the State of California

WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling***.

Nikon Inc.,
1300 Walt Whitman Road, Melville, New York
11747-3064, U.S.A.
Tel.: 631-547-4200

Notice for customers in Canada

CAUTION

This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

ATTENTION

Cet appareil numéique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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  The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, AC adapters, and Speedlights) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY. The use of third-party rechargeable Li-ion batteries not approved by Nikon could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera with you on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites:

- For users in the U.S.A.: *http://www.nikonusa.com/*
- For users in Europe: *http://www.europe-nikon.com/support*
- For users in Asia, Oceania, the Middle East, and Africa: *http://www.nikon-asia.com/*

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:

http://nikonimaging.com/

Table of Contents

For Your Safety i
Notices iii
Table of Contents vi
Introduction 1

Before You Begin 2

Parts of the Camera 2
The Monitor 4
The Mode Dial 6
Navigating the Menus 7
The Shutter-Release Button 7

First Steps 8

Inserting Batteries 8
Inserting Memory Cards 10
Checking the Battery Level 12
Basic Setup 14

Basic Photography 17

Step 1–Select 📷 Mode 17
Step 2–Frame the Picture 19
Step 3–Focus and Shoot 21
Step 4–View the Results (Full-screen Playback) 24

Scene Mode 27

Assist and Scene Modes 27
Framing Assist 28
SCENE Scene Mode 34
⊏⊐ Taking Pictures for a Panorama 40

More on Photography 42

⚡ When Lighting Is Poor: Using the Flash 42
⏲ Taking a Self-Portrait: Using the Self-Timer 44
🌷 Easy Close-Ups: Macro Close-Up Mode 46
◪ Controlling Exposure: Exposure Compensation 47

Movies 49

Selects Movie Types 49
🎥 Recording Movies 51
Viewing Movies 52

More on Playback 53
Viewing Pictures on the Camera 53
Cropping Pictures 56
Voice Memos: Recording and Playback 57
Viewing Pictures on TV 59
Viewing Pictures on a Computer 60
Printing Pictures 64
Print Set 65
Printing via Direct USB Connection 68

The Shooting Menu 73
Using the Shooting Menu 73
Image Mode 75
White Balance 79
Metering 81
Continuous 82
Best Shot Selector 84
Image Adjustment 85
Image Sharpening 86
Sensitivity 87
Auto Bracketing 88
Saturation Control 90
AF Area Mode 91
Auto-focus Mode 94
Noise Reduction 95

The Playback Menu 96
Using the Playback Menu 96
Slide Show 97
Delete 99
Protect 101
Auto Transfer 102
Small Pic. 105
Copy 106

The Setup Menu 109

Using the Setup Menu 109
Nikon Welcome Screen 110
◷ Date 112
Monitor Settings 115
Date Imprint 116
☼ Brightness 117
🔈 Sound Settings 118
Auto Off 119
Format Memory/Card 119
⚑ Language 120
USB 121
Video Mode 121
C Reset All 121
Ver. Firmware Version 122

Technical Notes 123

Optional Accessories 123
Caring for Your Camera 126
Error Messages 129
Troubleshooting 133
Specifications 136
Index 139

Introduction

Thank you for your purchase of a Nikon COOLPIX 4200 digital camera. This manual has been written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it handy when using the product.

Symbols Used in this Manual

To make it easier to find the information you need, the following symbols and conventions are used:

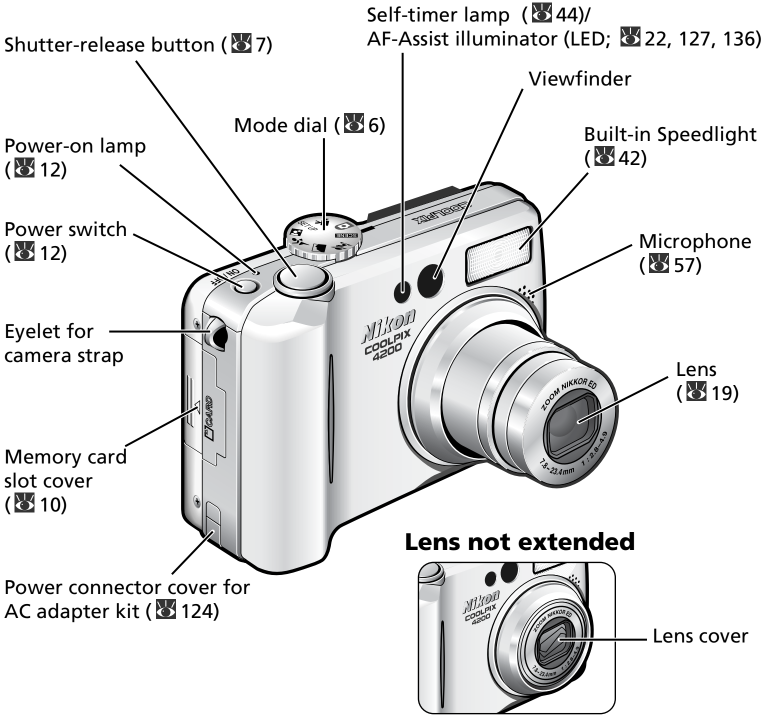
✓	This icon marks cautions, information that should be read before use to prevent damage to your camera.
✎	This icon marks notes, information that should be read before using your camera.
💡	This icon marks tips, additional information that may be helpful when using your camera.
👁	This icon indicates that more information is available elsewhere in this manual or in the *Quick Start Guide*.

Internal Memory and SD Memory Card

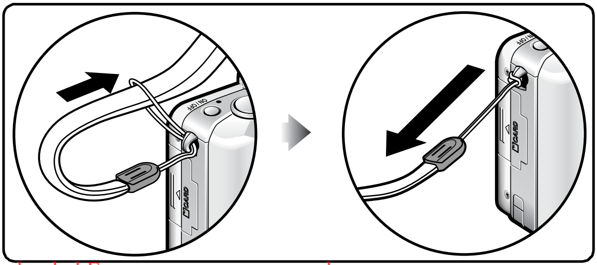
This camera uses both internal memory and a SD memory card for storing pictures. If you insert a memory card into the camera, pictures will automatically be stored on the card instead of in the internal memory. To store, view or delete pictures in the internal memory or to format the internal memory, remove the memory card first.

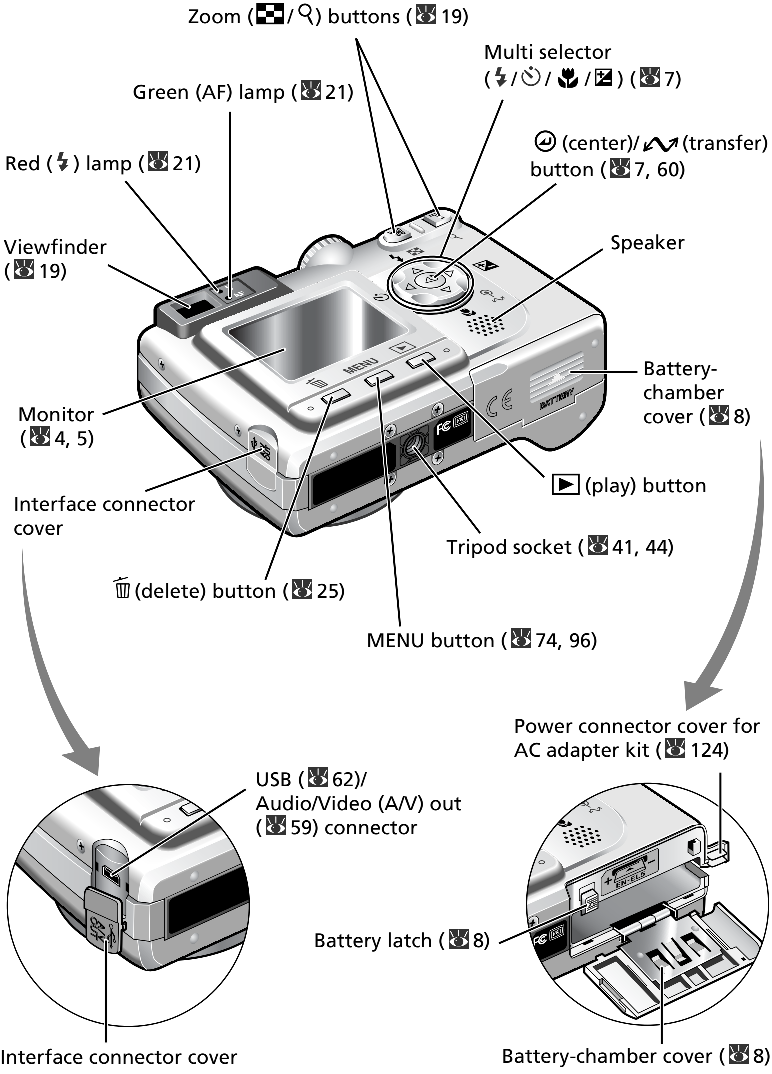
Before You Begin
First Steps
Basic Photography
Scene Mode
More on Photography
Movies
More on Playback
The Shooting Menu
The Playback Menu
The Setup Menu
Technical Notes

Parts of the Camera


Shutter-release button (👁 7)
Self-timer lamp (👁 44)/
AF-Assist illuminator (LED; 👁 22, 127, 136)
Viewfinder
Mode dial (👁 6)
Built-in Speedlight
(👁 42)
Power-on lamp
(👁 12)
Power switch
(👁 12)
Microphone
(👁 57)
Eyelet for
camera strap
Lens
(👁 19)
Memory card
slot cover
(👁 10)
Power connector cover for
AC adapter kit (👁 124)
Lens not extended
Lens cover

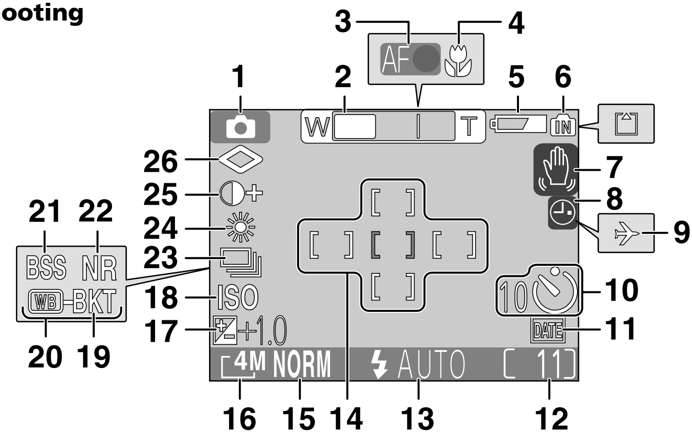
Attaching the Camera Strap




Zoom (⊞/🔍) buttons (☞ 19)
Multi selector
(⚡/⏲/✿/☒) (☞ 7)
Green (AF) lamp (☞ 21)
Red (⚡) lamp (☞ 21)
⊙ (center)/∿ (transfer)
button (☞ 7, 60)
Viewfinder
(☞ 19)
Speaker
Battery-
chamber
cover (☞ 8)
Monitor
(☞ 4, 5)
▶ (play) button
Interface connector
cover
Tripod socket (☞ 41, 44)
🗑 (delete) button (☞ 25)
MENU button (☞ 74, 96)
Power connector cover for
AC adapter kit (☞ 124)
USB (☞ 62)/
Audio/Video (A/V) out
(☞ 59) connector
Battery latch (☞ 8)
Interface connector cover
Battery-chamber cover (☞ 8)

The Monitor

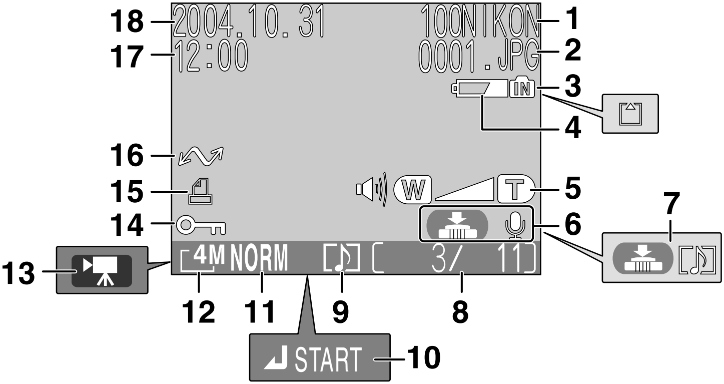
Shooting



1	Shooting mode	17, 27, 49
2	Zoom indicator[1]	19
3	Focus indicator[2]	21
4	Macro close-up mode	46
5	Battery level indicator[3]	12
6	Internal memory/memory card indicator	17
7	Camera shake icon[4]	43, 129
8	"Date not set" icon[5]	16
9	Time zone indicator[6]	112
10	Self-timer indicator	44
11	Date imprint indicator	116
12	Number of exposures remaining/ length of movie	17, 18, 51
13	Flash mode	42
14	Focus area[7]	23, 91
15	Image quality	75
16	Image size	77
17	Exposure compensation	47
18	Sensitivity (ISO equivalency)	87
19	Bracketing[8]	88
20	White balance bracketing[9]	88
21	Best Shot Selector (BSS)	84
22	Noise reduction	95
23	Continuous shooting mode	82
24	White balance	79
25	Image adjustment	85
26	Image sharpening	86

1) Appears when the zoom buttons are pressed.
2) Appears when the shutter-release button is pressed halfway.
3) Appears when the battery is running low.
4) Appears at slow shutter speeds to warn that pictures may be blurred.
5) Blinks when the camera clock has not been set.
6) Appears when the new city time zone has been set.
7) Displays the focus area when the shutter-release button is pressed halfway if **AF area mode** has been set to ▣ **Auto**.
8) Appears when the Bracketing has been set.
9) Appears when the White balance bracketing has been set.

Playback



1	Current folder	26
2	File number and type	26
3	Internal memory/memory card indicator	17
4	Battery level indicator*	12
5	Volume indicator	118
6	Voice memo recording guide	57
7	Voice memo playback guide	57
8	Current frame number/total number of frames/length of movie	24, 51
9	Voice memo icon	57
10	Movie playback icon	52
11	Image quality	75
12	Image size	77
13	Movie indicator	51
14	Protect icon	100
15	Print-order icon	65
16	Transfer icon	102
17	Time of recording	14
18	Date of recording	14

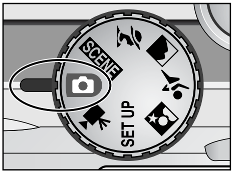
* Appears when the battery is running low.

Display in the Monitor

Use **Monitor settings** in the setup menu to switch to display or hide information for shooting or playback (☞ 115). To show information, set **Monitor settings** to **Show info**, **Auto info**, or **Framing grid**. To hide information on the monitor, set **Monitor settings** to **Hide info**. To turn off the monitor, set **Monitor settings** to **Monitor off**. If the battery level indicator appears, the monitor will turn off temporarily while the flash is charging (☞ 12, 22).

The Mode Dial

Using the mode dial, you can select from seven shooting modes and the set-up mode. Choose a shooting mode according to shooting conditions.



To select a mode, align the mode icon with the “ ▬ ” mark next to the mode dial.

Auto (17)

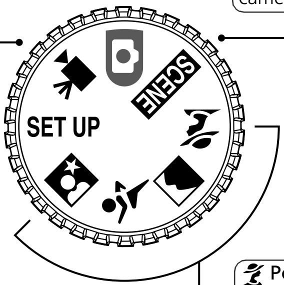
A simple “point-and-shoot” mode in which the majority of camera settings are controlled by the camera. You can choose from thirteen shooting menus to achieve the desired effect.

Movie (51 - 52)

Choose from three movie modes. You can make movies with sound.

SCENE Scene (27, 34)

Choose from eleven “scenes” suited to different subjects or shooting conditions and let the camera do the rest.



SET UP Setup (109 - 122)

Choose this mode to display the setup menu, where you can perform such tasks as setting the camera clock and adjusting monitor brightness.

Portrait Assist

Landscape Assist

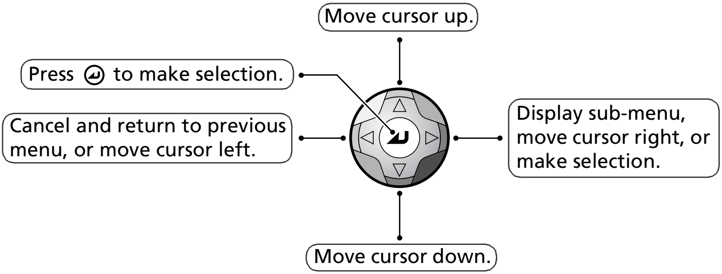
Sports Assist

Night Portrait Assist

Use framing assist to help compose pictures suited to a particular type of subject (27 - 28).

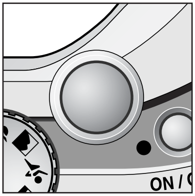
Navigating the Menus

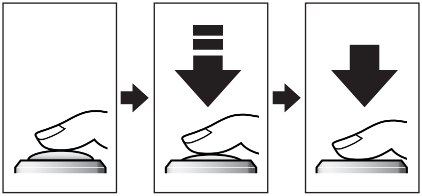
The multi selector is used to navigate through the camera menus.


Move cursor up.
Press ⏎ to make selection.
Cancel and return to previous menu, or move cursor left.
Display sub-menu, move cursor right, or make selection.
Move cursor down.

The Shutter-Release Button

Your camera has a two stage shutter-release button. The camera sets focus and exposure when the button is pressed halfway. The green (AF) lamp next to the viewfinder and the focus indicator in the monitor will light when the focus operation is complete. Focus and exposure will remain locked while the shutter-release button is pressed halfway. To take the picture, press the shutter-release button the rest of the way down.





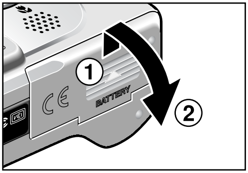
Press the button halfway.

Press the button the rest of the way down.

Inserting Batteries

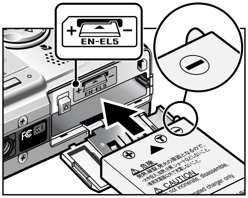
Your camera uses Nikon EN-EL5 rechargeable lithium-ion battery.

- Provided with camera
- Can be recharged using supplied MH-61 battery charger (be sure to charge battery before using camera for first time or after long period of disuse). About two hours are required to charge battery when no charge remains.



1 **Open the battery-chamber cover**

Slide the cover in the direction shown in (①) until it stops and open the cover (②).

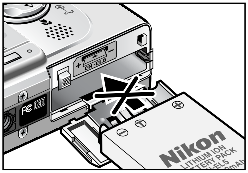


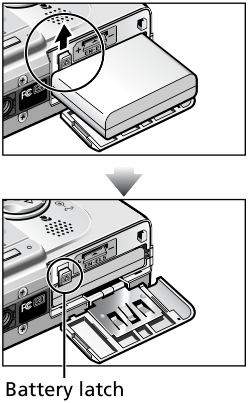
2 **Insert the battery**

Insert the battery as shown in the label at the entrance to the battery chamber, making sure the positive "+" and negative "–" terminals are in the correct orientation. The small projection on the battery is on the same side as the negative terminal.

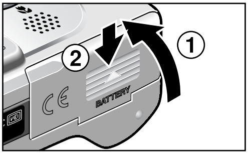
Inserting Batteries

Inserting the battery upside down or backwards could damage the camera. Check to be sure the battery is in the correct orientation.





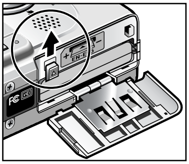
The orange battery latch is pushed aside as the battery is inserted. The latch will close when the battery is fully inserted.



3 Close the battery-chamber cover

Close the cover (①) and slide it in until it latches (②).
Ensure the cover is closed firmly.

Replacing Batteries



Turn the camera off and make sure that the power-on lamp has gone out before opening the battery-chamber cover.
Slide the battery latch in the direction indicated to eject the battery, which can then be removed using your fingers.

- Note that the battery may become hot during use. Observe due caution when removing the battery.

Read Battery Warnings

Read and follow the battery warnings and cautions on pages i - ii and page 128 of this manual, together with any warnings and instructions supplied by the battery manufacturer.

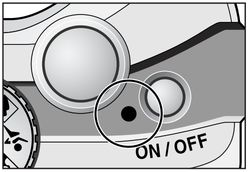
Alternative Power Sources

To power the camera continuously for extended periods, use an optional EH-62A AC adapter kit. ***Do not, under any circumstances, use another make or model of AC adapter.*** Failure to observe this precaution could result in overheating or in damage to the camera.
For more information on attaching instructions for EH-62A AC adapter kit, see “Connecting the EH-62A AC Adapter Kit” (👁 124).

Inserting Memory Cards

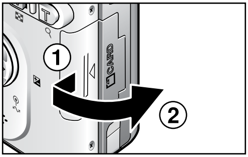
Pictures can be stored in the camera's internal memory (about 12 MB) or on Secure Digital (SD) memory card. If no memory card has been inserted in the camera, pictures will be stored in the camera's internal memory, and if the camera contains a memory card, then pictures will automatically be stored on the card.

To store pictures in the internal memory, remove the memory card.



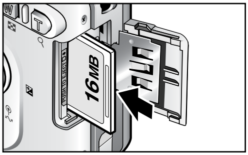
1 Confirm that the camera is off

The power-on lamp should be off.



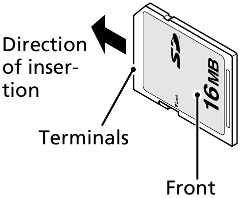
2 Open the memory card slot cover

Slide the cover in the direction shown in (①) until it stops, and the cover will open automatically (②).



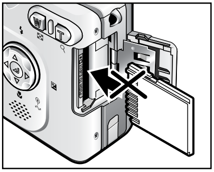
3 Insert the memory card

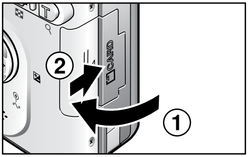
Insert the memory card in the direction of the arrow shown on the label at the entrance to the memory card slot until it stops.



Inserting Memory Cards

Insert the memory card terminals first. Inserting the card upside down or backwards could damage the camera or the card. Check to be sure the card is in the correct orientation.





4 Close the memory card slot cover

Close the cover (①) and slide it until it latches (②).

Ensure the cover is closed firmly.

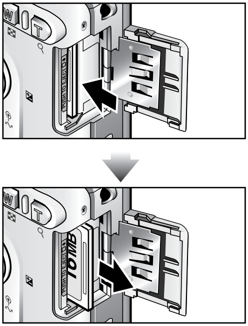
Formatting Memory Cards

Memory cards must be formatted using the COOLPIX4200 before first use. For information on formatting memory cards, see Format Memory/Card (🔍 119) in the setup menu.

Removing Memory Cards

Memory cards can be removed without loss of data when the camera is off. To remove memory cards, turn the camera off and confirm that the power-on lamp is off. ***Do not open the memory card slot cover while the power-on lamp is lit.*** Open the memory card slot cover and press the memory card to partially eject the card. The card can then be removed by hand.

- Memory cards may become hot during use; observe due caution when removing memory cards.

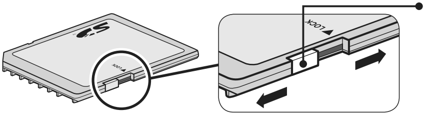


Memory Cards

- Use only Secure Digital (SD) memory cards.
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shocks.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight in a closed vehicle or in other areas exposed to high temperatures.
- Do not expose to high levels of humidity or to corrosive gas.

The Write Protect Switch

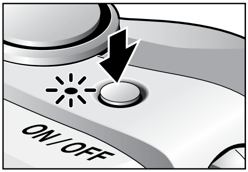
Memory cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" position, pictures can not be recorded, deleted, or edited, and the card can not be formatted. Do not lock the card when taking, deleting, or editing pictures or when transferring pictures to a computer.



Write protect switch

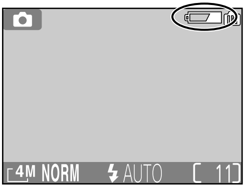
When the memory card is locked, pictures can be played back but can not be recorded, deleted, edited, or transferred using the ⊙ (⤴) button on the camera, and the card can not be formatted.

Checking the Battery Level



1 Turn the camera on

- Press the power switch.
- The power-on lamp lights when the camera is on.



2 Check the battery level in the monitor

When the camera is turned on for the first time, a language-selection dialog will be displayed. Choose the desired language and press ⊕. See "Basic Setup" (📖 14).

Battery Level

Display	Meaning
NO ICON	Battery fully charged.
▭ (lights)	Low battery. If flash fires, monitor turns off while Speedlight recharges.
WARNING!! BATTERY EXHAUSTED	Battery exhausted. Charge or replace with a fully charged battery.

The red (⚡) and green (AF) lamps will blink when the "WARNING!! BATTERY EXHAUSTED" warning is displayed.

✓ Turning the Camera Off

To turn the camera off when the power-on lamp is lit, press the power switch.

- Do not remove the battery or disconnect the EH-62A AC adapter kit (optional) until the power-on lamp has gone out.

The ▶ Button

The camera can also be turned on by pressing the ▶ button for about two seconds. Your most recent picture will be displayed in the monitor (53).

The Power-On Lamp

The power-on lamp indicates the following:

When the power-on lamp is	The camera is
On	On
Blinking	In standby mode
Off	Off

Auto Power Off (Standby Mode)

If no operations are performed for one minute (default setting), the monitor will turn off automatically and the camera will enter standby mode to reduce the drain on the battery. While the camera is in standby mode, the power-on lamp will blink. If no operations are performed for three minutes after the camera enters standby mode, the power will turn off automatically and the power-on lamp will go out. The camera will be reactivated from standby mode when you:

- Press the power switch
- Press the shutter-release button halfway
- Press the ▶ button to view the last picture taken
- Press the **MENU** button to display the menu for the current mode
- Rotate the mode dial to select a new mode

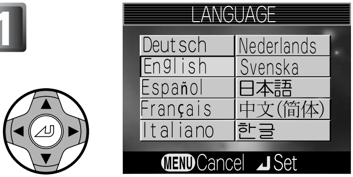
The length of time before the camera enters standby mode can be changed using the **Auto off** option in the setup menu (119). However, when a menu or the setup menu is displayed, the monitor will turn off after three minutes, and when pictures are being shown in a non-stop slide show (97) or when the camera is powered by an AC adapter kit, the monitor will turn off after thirty minutes.

When connecting the camera to a computer or printer with a USB cable, Auto power off function does not work.

Basic Setup

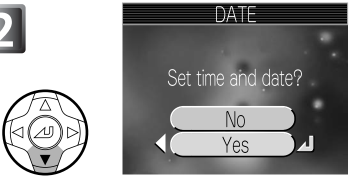
The first time the camera is turned on, a language-selection dialog will be displayed in the monitor. Follow the steps below to choose a language and set the time and date.

1


LANGUAGE
Deutsch
English
Español
Français
Italiano
Nederlands
Svenska
日本語
中文(简体)
한글
MENU Cancel
↵ Set

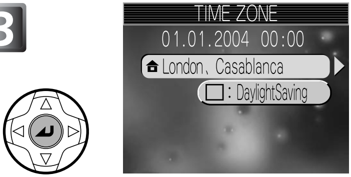
Highlight **Deutsch** (German), **English**, **Español** (Spanish), **Français** (French), **Italiano**, (Italian), **Nederlands** (Dutch), **Svenska** (Swedish), 日本語 (Japanese), 中文(简体) (Simplified Chinese), or 한글 (Korean), and press ↵.

2


DATE
Set time and date?
No
Yes

Confirmation dialog displayed. Highlight **Yes**.

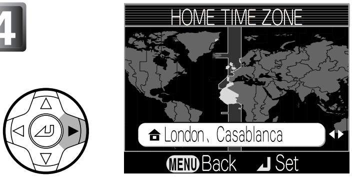
3


TIME ZONE
01.01.2004 00:00
London, Casablanca
☐: DaylightSaving

TIME ZONE menu displayed.*

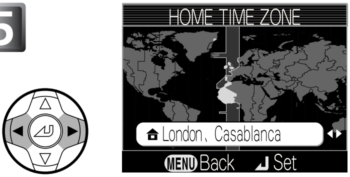
* To turn daylight saving time on or off, press ▼ to highlight **DaylightSaving** and press ↵. When **DaylightSaving** is checked, time will automatically be advanced one hour (📖 114). To return to Step 3, press ▲ to highlight current time zone.

4


HOME TIME ZONE
London, Casablanca
MENU Back
↵ Set

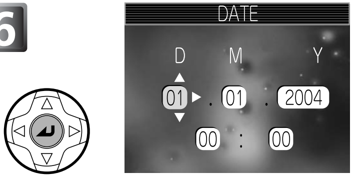
Display map of world time zones.

5


HOME TIME ZONE
London, Casablanca
MENU Back
↵ Set

Select home time zone.

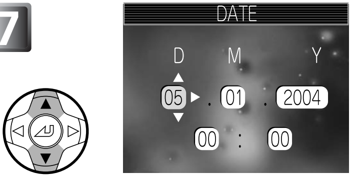
6


DATE
D M Y
01 . 01 . 2004
00 : 00

Display DATE menu.

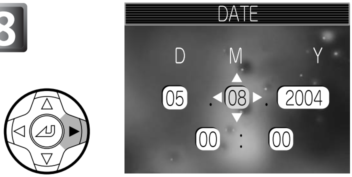
- When turning the camera on and setting the date and time for the first time, you can not return to HOME TIME ZONE menu.

7


DATE
D M Y
05 . 01 . 2004
00 : 00

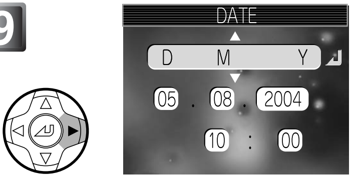
Edit **D**ay (order of **D**ay, **M**onth, and **Y**ear may differ in some areas).

8


DATE
D M Y
05 . 08 . 2004
00 : 00

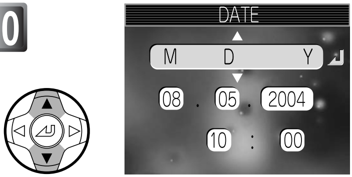
Select **M**onth. Repeat steps 7 - 8 to edit **M**onth, **Y**ear, hour, and minute.

9


DATE
D M Y
05 . 08 . 2004
10 : 00

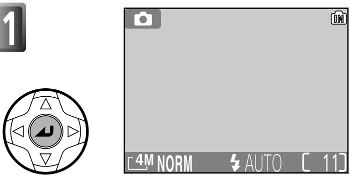
Highlight **D M Y**.

10


DATE
M D Y
08 . 05 . 2004
10 : 00

Choose order in which **D**ay, **M**onth, and **Y**ear will be displayed.

11


IN
4M NORM
AUTO
[11]

Exit to mode currently selected with the mode dial.

Note that time and date of recording will not be imprinted on pictures unless **Date** or **Date and time** is selected for **Date imprint** (🔍 116).

Date not Set

If you exit without setting time and date, the ◷ (“date not set”) icon will flash in the monitor when the camera is in shooting mode and all pictures will have time stamp of “0000.00.00 00:00” (still images) or “2004.01.01 00:00” (movies).

The Clock Battery

When the main battery is installed or the camera is powered by an EH-62A AC adapter kit (optional), the clock battery will charge in about ten hours. When fully charged, the clock battery can provide several days of back-up power.

The Camera Clock

The camera clock is less accurate than most watches or household clocks. Check the clock regularly against more accurate timepieces and reset as necessary.

Time Zones

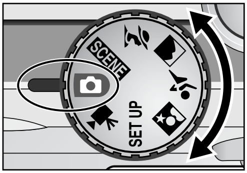
The local time or daylight saving time can be set when traveling abroad. See **Date** (112) in the setup menu for details.

Setting the Clock from Provided Software (Windows XP/Mac OS X Only)

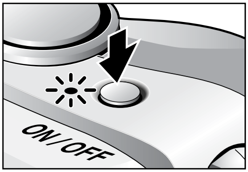
If the camera is connected with the **USB** option set to **PTP** (60) in the setup menu, provided software can be used to set the camera clock to the same time and date as the computer. See the *provided software Reference Manual* (on CD) for details.

Step 1–Select 📷 Mode

This section details the basic steps involved in taking pictures in 📷 (auto shooting mode). In this automatic, "point-and-shoot" mode, the majority of camera settings are controlled by the camera in response to shooting conditions, producing optimal results in most situations.



1 **Rotate the mode dial to 📷**



2 **Turn the camera on**
The power-on lamp will light and the monitor will display a welcome screen (👁 110). The camera is ready to shoot when the monitor shows the view through the camera lens.

Shooting mode
📷 indicates auto shooting mode.

Internal memory/memory card
When the camera contains a memory card, [▲] is displayed, and when there is no memory card in the camera, IN is displayed.

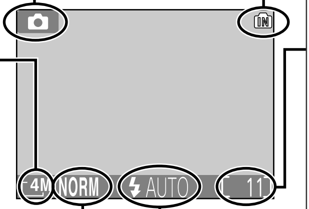


Image size
Choose from five options depending on how you plan to use the picture (👁 77). The default setting is **4M (2272 × 1704)**.

Number of exposures remaining
The number of pictures that can be stored on the internal memory or a memory card depends on the capacity of the memory or memory card and the option chosen for **Image mode (Image quality** and **Image size**) (👁 78).

Image quality
Choose from three options depending on how you plan to use the picture (👁 75). The default setting is **NORMAL**.

Flash mode
Choose from five modes depending on lighting and your creative intent (👁 42).

Number of Exposures Remaining

If the number of exposures remaining is zero, the message "OUT OF MEMORY" will be displayed in the monitor and no further pictures can be taken until you:

- Choose a lower image quality or image size setting (👁 75) (depending on the condition, no further pictures may be taken even if you change the setting).
- Insert a new memory card (👁 10).
- Remove the memory card so that pictures will be recorded in the internal memory (👁 11) (pictures can be taken only when the internal memory has space).
- Delete some pictures in the internal memory or on a memory card.

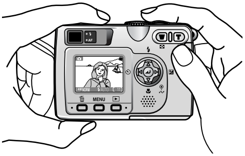
Auto Shooting Mode

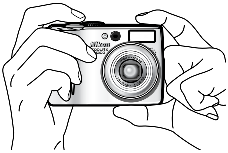
📷 (auto shooting) mode provides thirteen shooting menu options such as **White balance**, **Image sharpening** and **Continuous**. See "Using the Shooting Menu" (👁 73).

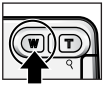
Advanced Brightness Control LCD

The COOLPIX4200's Advanced Brightness Control LCD optimizes visibility in sunlight and other lighting conditions.

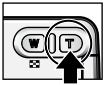
Step 2–Frame the Picture







Zoom out



Zoom in

1 Ready the camera

Hold the camera steadily in both hands. Photographs can be framed in the monitor or the viewfinder.

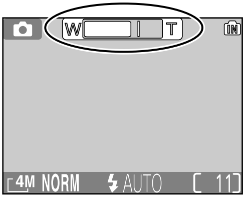
Don’t Block the Shot

To avoid dark or partially obscured pictures, keep your fingers and other objects away from the lens, flash window, and microphone.

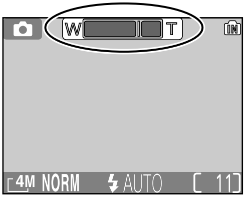
2 Frame your subject

Your Nikon digital camera is equipped with two types of built-in zoom: optical zoom, in which the camera’s telescoping lens can be used to magnify the subject up to 3 ×, and digital zoom, in which digital processing is used to further magnify the image up to 4 ×, for a total of 12 ×. Use the zoom buttons to frame your subject in the center of the monitor:

- Press the ⊞ (**W**) button to zoom out from your subject, increasing the area visible in the frame.
- Press the 🔍 (**T**) button to zoom in on your subject so that it fills a larger area of the frame.
- When the camera is zoomed in to maximum magnification, holding the 🔍 (**T**) button down for more than two seconds will trigger digital zoom. The zoom indicator will turn yellow, and the green (AF) lamp next to the viewfinder will blink. Use the 🔍 (**T**) and ⊞ (**W**) buttons to adjust zoom in the digital zoom range. To cancel digital zoom, press ⊞ (**W**) until the zoom indicator turns white.



Indicator in monitor shows amount of zoom when either button is pressed



Digital zoom

Digital Zoom

- In digital zoom, data from the camera's image sensor are processed digitally, enlarging the center area of the picture to fill the frame. Unlike optical zoom, digital zoom does not increase the amount of detail visible in the picture. Instead, details visible at maximum optical zoom are simply enlarged, producing a slightly "grainy" image. Note that the effects of digital zoom are not visible in the viewfinder - use the monitor when framing pictures with digital zoom. Digital zoom is not available when the monitor is off or when an assist mode (except for sports assist) is selected.
- When digital zoom is working, the focus area is fixed in the center of the frame (91).
- When digital zoom is working, **Metering** is set to just like **Center-weighted** (81).

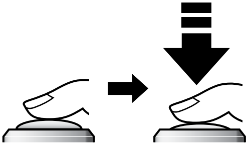
When Lighting Is Poor

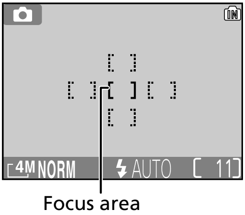
When lighting is poor, sensitivity is raised to compensate and the image in the monitor may be slightly mottled. This is normal and does not indicate a malfunction.

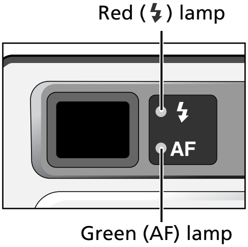
Monitor or Viewfinder?

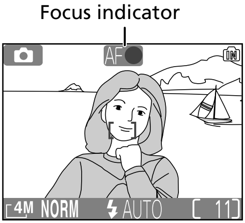
- *Use the monitor* to confirm camera settings at a glance while at the same time viewing an image that shows how the final picture will appear. This is particularly useful when the image in the viewfinder does not accurately reflect what will appear in the final picture, for example when:
  – your subject is less than 1.5 meters (4'11") from the camera
  – digital zoom is in effect
- *Use the viewfinder* when you want to save power by turning the monitor off (115), or when bright ambient lighting makes it difficult to see the display in the monitor.
- When taking pictures continuously using the sports assist or continuous option, etc., they are displayed on the monitor later than actual shooting. We recommend you to take pictures continuously using the viewfinder.

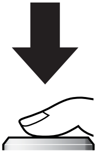
Step 3–Focus and Shoot











1 Focus

Press the shutter-release button halfway to set focus and exposure.

- Focus and exposure will lock while the shutter-release button is pressed halfway (👁 7).
- In 📷 mode, the camera automatically selects focus area containing the subject closest to camera from five focus areas (default setting in auto shooting mode).
- When subject is in focus, the selected AF area turns green.

When the shutter-release button is pressed halfway, the green AF (Autofocus) lamp and the red ϟ (flash-ready) lamp are shown as follows.

Red (ϟ) lamp	
On	Flash will fire when picture is taken.
Blinks	Flash charging.
Off	Flash off or not required.

Green (AF) lamp/ focus area and focus indicator	
On: green/ green	Subject in focus.
Blinks: green/ red	Camera unable to focus on subject. Recompose the picture and try again.

2 Take the picture

- *Press the shutter-release button the rest of the way down* to take the picture.
- To prevent blur, press the shutter-release button down smoothly.

During Recording

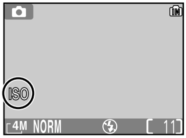
- While pictures are being recorded to the memory or memory card, the green (AF) lamp will blink, and at the same time, a ⌛ (wait) icon will be displayed in the monitor or the memory icon (▢ or IN) will blink. ***Do not turn the camera off, eject the memory card, or remove or disconnect the power source while pictures are being recorded.*** Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera, internal memory, or card.

Getting Good Results with Autofocus

Autofocus performs best when there is contrast between the subject and the background and the subject is evenly lit. It does not perform well if the subject is very dark or moving rapidly, if there are objects of sharply differing brightness in the scene (e.g., the sun is behind your subject and their features are in deep shadow), or if there are several objects at different distances from the camera at the center of the frame (e.g., your subject is inside a cage).

Sensitivity (ISO Equivalency)

Sensitivity is a measure of how sensitive the camera responds to light. Your Nikon digital camera normally has a sensitivity roughly equivalent to film with an ISO 80 rating. When lighting is poor and Sensitivity (87) is Auto, the camera will automatically increase sensitivity, permitting faster exposures and minimizing blur caused by inadvertent camera movement (camera shake). An **ISO** icon will appear in the monitor to warn that the picture may be slightly mottled.



AF-Assist Illuminator

COOLPIX4200 is equipped with an AF-assist illuminator. If lighting is poor, the built-in AF-assist illuminator will light when the shutter-release button is pressed halfway, allowing the camera to focus even when the subject is poorly lit.
The AF-assist illuminator will light in the following cases:

- **AF area mode** is set to **Auto** or **Off** in the shooting menu, or the focus area in the center of the frame is selected when **AF area mode** is set to **Manual**.
- Selecting the focus area in the center of the frame when shooting in (portrait assist) mode without using a framing guide (29).
- Shooting in (night portrait assist) mode without using a framing guide (33).
- Selecting the focus area in the center of the frame when shooting in (close up) mode.

The AF-assist illuminator provides the following range:

- Zoom out: within approx. 2 m (6'6")
- Zoom in: within approx. 1.5 m (4'11")

Low Battery

If the flash fires when the low battery icon is displayed, the monitor will turn off while the Speedlight recharges.

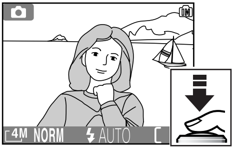
Autofocus

The COOLPIX 4200 has two modes that allow control of the Autofocus; **AF area mode** (91) and **Auto-focus mode** (94).

AF/AE lock

Focus and exposure are locked when the shutter-release button is pressed halfway, and remain locked while the shutter-release button is held in this position (AF/AE lock). AF/AE lock can be used to take pictures of off-center subjects or in situations in which the camera is unable to focus using autofocus.

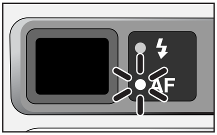
Procedures for AF/AE lock are described below. In this example, **AF area mode** (94) is set to **Auto** (default setting).



1 Focus

Position the subject in the center of the frame in the monitor and press the shutter-release button halfway.

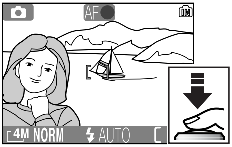
- The camera automatically selects a focus area containing the subject closest to the camera from five focus areas.



2 Check the green (AF) lamp and focus indicator

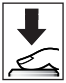
When the subject is in focus, the green (AF) lamp next to the viewfinder and focus indicator on the monitor are lit. Focus area shows green on the monitor.

- Focus and exposure will remain locked while the shutter-release button is pressed halfway.



3 Recompose the picture

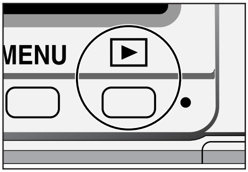
Keeping the shutter-release button pressed halfway, recompose your picture. Do not change the distance between the camera and your subject while AF/AE lock is in effect. If your subject moves, remove your finger from the shutter-release button and focus again at the new distance.



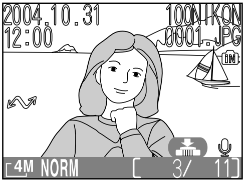
4 Take the picture

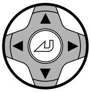
Press the shutter-release button the rest of the way down to shoot.

Step 4–View the Results (Full-screen Playback)



1 Press the ▶ button





2 View pictures in the monitor

- This mode is called “Full-screen playback” (☞ 53).
- Your most recent picture will be displayed in the monitor.
- To view additional pictures, press ▼ or ▶ to view pictures in the order recorded, ▲ or ◀ to view pictures in reverse order.

To cancel full-screen playback and return to the auto shooting mode, press the ▶ button again.

Playback Tip

Pictures are displayed briefly at low resolution while being read from the memory or a memory card. This makes it possible to scroll rapidly through the pictures in the memory or a memory card without waiting for each image to be displayed at full resolution.

The ▶ Button

Pressing the ▶ button for about two seconds will turn the camera on. Press again to return to the mode selected with the mode dial.

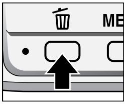
More About Playback

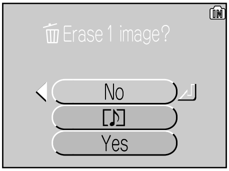
For more information on playback, see “More on Playback” (☞ 53 - 72).

Deleting Unwanted Pictures

To delete the picture currently displayed in the monitor:

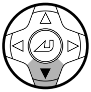
1

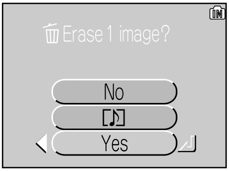




A confirmation dialog displayed.

2

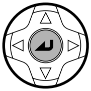


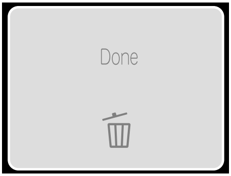


Highlight **Yes**.

- To exit without deleting picture, highlight **No** and press ⊛.
- To delete only a voice memo (📖57), highlight [♪] and press ⊛. [♪] can be selected when a voice memo was recorded with the picture.

3



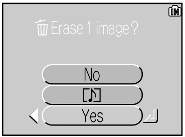


Delete picture and return to playback.

Deleting Your Last Shot

At any time during shooting, you can press the 🗑 button to delete the last picture taken. The confirmation dialog will be displayed. Press ▼ to highlight **Yes** and press ⊛.

- To exit without deleting the picture, highlight **No** and press ⊛.
- To delete only a voice memo (📖57), highlight [♪] and press ⊛. [♪] can be selected when a voice memo was recorded with the picture.



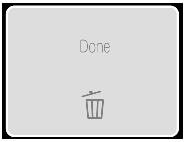


Image File and Folder Names

In the memory or on the memory card, pictures are identified by file names with three parts: a four letter identifier, a four-digit file number assigned automatically by the camera in ascending order, and a three-letter extension (e.g., "DSCN0001.JPG"). When a picture is viewed in the monitor, the file number and extension appear in the top right corner of the display. The identifier is not displayed, but is visible when pictures are transferred to a computer.

Picture type		Identifier	Extension	👁
Original	Still picture	DSCN	.JPG	24
	Movie	DSCN	.MOV	51
Copy	Copy created using **Small pic.**	SSCN	.JPG	105
	Cropped copy	RSCN	.JPG	56
Audio file	Voice memos	DSCN SSCN RSCN	.WAV	57

- Pictures are stored in a folder created automatically by the camera. The folder name includes a three-digit folder number (e.g., 100NIKON).
- When the current folder is full (200 pictures) a new folder is automatically created. The new folder becomes the current folder, and its number is incremented by one (e.g., 100NIKON → 101NIKON).
- Each time you take pictures in Panorama assist mode, a "P_xxx" folder (e.g., "101P_001") is automatically created, and a series of pictures starting with "DSCN0001" are stored in the folder.
- When you take pictures after switching the mode from Panorama assist mode, a new folder will be created, and newly taken pictures are stored in the folder.
- If you take a picture when the current folder contains a picture numbered 9999, a new folder will be created and file numbering will begin again from 0001.
- If file number reaches 200 or picture number reaches 9999 when the memory or the memory card contains a folder numbered 999, no further pictures can be taken, even if there is still memory capacity. Replace the memory card, or transfer all pictures to a computer (👁60) and then format the memory or the memory card (👁119).
- When the ▶ button is pressed in shooting mode, the picture with the largest number stored in the folder is displayed.

Assist and Scene Modes

Your Nikon digital camera offers a choice of four "assist" and eleven "scene" modes. In these modes, camera settings are automatically optimized for the selected subject type, sparing you the necessity of adjusting settings one-by-one.

Assist Modes

Assist modes are chosen by rotating the mode dial to the desired mode. Framing assist options are available to help you compose your shots.

Mode	Description	☞
Portrait assist	Use for portraits in which the main subject stands out clearly while background details are softened.	29
Landscape assist	Use to enhance outlines, colors, and contrast in skyscapes, forests, and other landscape shots, or to take portraits that feature a landmark in the background.	31
Sports assist	Use for sports shots that freeze motion in rapidly-moving subjects.	32
Night portrait assist	Use for portraits taken against a dimly-lit backdrop.	33

Scene Modes

Scene modes are selected by rotating the mode dial to SCENE and pressing the **MENU** button.

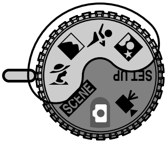
Mode	Description	☞
Party/Indoor	Use to capture background details or the effects of candlelight and other indoor lighting.	35
Beach/Snow	Use for bright subjects such as snowfields, beaches, and sunlit expanses of water.	35
Sunset	Use to preserve the deep hues seen in sunsets and sunrises.	35
Dusk/Dawn	Use to preserve the colors seen in the weak natural light before sunrise and after sunset.	36
Night landscape	Use when taking landscape shots at night.	36
Close up	Use to capture vivid colors in close-up shots of flowers, insects, and other small objects.	37
Museum	Use where flash photography is prohibited.	37
Fireworks show	Use to capture the expanding burst of light from a firework.	38
Copy	Use to copy text and line drawings.	38
Back light	Use when light is coming from behind your subject, throwing their features into shadow.	38
Panorama assist	Use when taking a series of pictures that will later be joined to form a single scene.	39

Assist and Scene Modes

Depending on your subject, assist and scene modes may not always produce the desired results. If results are not to your satisfaction, choose 📷 (auto shooting) and try again.

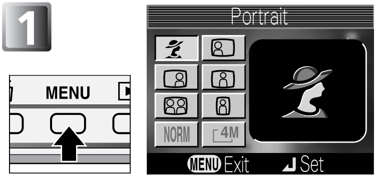
Framing Assist

The four assist modes offer a selection of framing assist options that allow you to compose pictures with the help of framing guides displayed in the monitor.
To use framing assist, rotate the mode dial to the desired mode and follow the steps below.


SET UP
SCENE

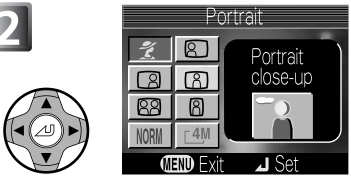
Assist modes

1


MENU
Portrait
NORM
4M
MENU Exit
Set

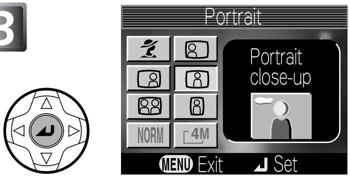
Display framing assist menu.

2


Portrait
Portrait close-up
NORM
4M
MENU Exit
Set

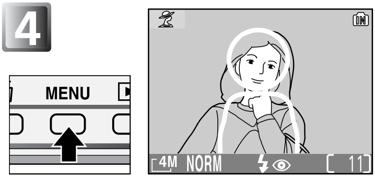
Choose composition type. Current selection shown by large icon and caption.

3


Portrait
Portrait close-up
NORM
4M
MENU Exit
Set

Make selection.

4


MENU
IN
4M
NORM
11

Press **MENU** button to return to shooting mode. Framing guide appears in monitor. When taking pictures, position subject or subjects in framing guide as described on following pages.

Using the Guides

- Your subject does not have to fit exactly in the framing guides.
- ***When framing pictures, pay attention to your surroundings; be careful not to trip and fall.***

Image Quality and Image Size

It is possible to change **Image quality** (☞ 75) and **Image size** (☞ 77) from this menu. Select an icon of **Image quality** or **Image size** shown on the right, and press ⏎ to change them.

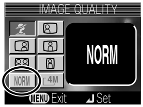


IMAGE QUALITY
NORM
4M
MENU Exit
Set

Image quality

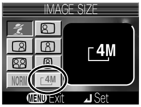


IMAGE SIZE
4M
NORM
MENU Exit
Set

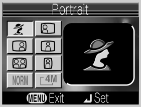
Image size

Portrait Assist

(portrait assist) mode helps you frame portraits in which the main subject stands out clearly while background details are softened. This lends the composition a sense of depth (the degree of softening depends on the amount of light available). A framing assist menu helps you frame off-center subjects and compose tall or wide shots and two-person portraits.

Rotate the mode dial to and press the **MENU** button (28). The following portrait assist modes are available:

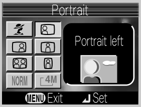
Portrait


Portrait
NORM
4M
MENU Exit
Set

No guides are displayed in monitor. **AF area mode** is automatically set to **Manual**.

- Select a focus area according to your subject (93).

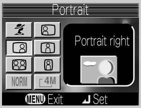
Portrait left


Portrait
Portrait left
NORM
4M
MENU Exit
Set

Use to compose shot with subject centered in left half of frame.

- Camera will focus on subject in framing guide.

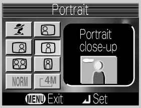
Portrait right


Portrait
Portrait right
NORM
4M
MENU Exit
Set

Use to compose shot with subject centered in right half of frame.

- Camera will focus on subject in framing guide.

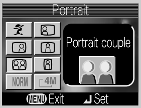
Portrait close-up


Portrait
Portrait
close-up
NORM
4M
MENU Exit
Set

Use to compose shot with your subject's face positioned in top half of frame.

- Camera will focus on subject in framing guide.

Portrait couple


Portrait
Portrait couple
NORM
4M
MENU Exit
Set

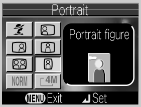
Use to compose shot with two subjects positioned side-by-side.

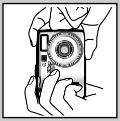
- Camera will focus on closest subject.

Portrait figure

Use to compose shot with camera held as shown at right and subject's face in top half of frame.

- Camera will focus on subject in framing guide.


Portrait
Portrait figure
NORM
4M
MENU Exit
Set



⚡	⚡👁 (changeable)	⏲	**OFF** (changeable)	🌷	**OFF**

Settings for Assist Modes

The settings for ⚡flash, ⏲self-timer, 🌷macro close-up in Portrait assist, Landscape assist, Sports assist, and Night portrait assist modes are shown on the table respectively.

⛰ Landscape Assist

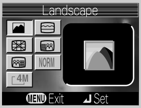
⛰ (landscape assist) mode helps you frame vivid landscape shots that enhance outlines, colors, and contrast. A framing assist menu helps you frame not only natural landscapes but also cityscapes and portrait shots featuring a landmark in the background. Rotate the mode dial to ⛰ and press the **MENU** button (📖28).

The following landscape assist modes are available:

⛰ Landscape

No guides are displayed in monitor. Use to focus on distant objects through foreground objects such as windows or a screen of branches.

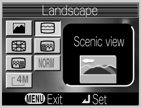
- Focus is fixed at infinity.


Landscape
NORM
4M
MENU Exit
Set

Scenic view

Use to compose landscapes with sky in top third of frame, distant objects in middle third, and closer objects in bottom third.

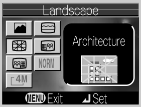
- Match top of skyline with wavy yellow guide.


Landscape
Scenic view
NORM
4M
MENU Exit
Set

Architecture

Use to photograph buildings.

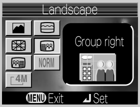
- A grid is displayed in the monitor to help keep verticals and horizontals aligned with the frame.


Landscape
Architecture
NORM
4M
MENU Exit
Set

Group right

Use to compose portraits with portrait subjects to right and landmark or other object in background at left of frame.

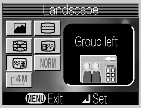
- Both portrait subject and background object will be in focus.


Landscape
Group right
NORM
4M
MENU Exit
Set

Group left

Use to compose portraits with portrait subjects to left and landmark or other object in background at right of frame.

- Both portrait subject and background object will be in focus.


Landscape
Group left
NORM
4M
MENU Exit
Set

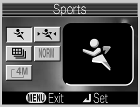
⚡	⊘ *	⏱	**OFF** (changeable)	🌷	**OFF**

* When you select **Group right** or **Group left**, flash mode is set to ⚡AUTO (changeable).

Sports Assist

(sports assist) mode is used for dynamic action shots that capture moving objects. The assist menu lets you freeze the action in a single shot or record motion in a series of pictures.
Rotate the mode dial to and press the **MENU** button (28).
The following sports assist modes are available:

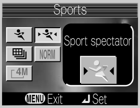
Sports



While shutter-release button is held down, pictures are recorded at rate of up to about 1.3 frames per second.

- Camera takes 11 shots in a series when **Image quality** is **NORMAL** and **Image size** is **4M** (2272 × 1704).
- Focus, exposure, and white balance are determined by first shot in each series.
- When the (▭) battery level indicator is displayed in the monitor, consecutive shooting speed will be slow.

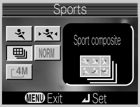
Sport spectator



Sport spectator is ideal for capturing those instants when you have no time to compose the picture. Use at ranges of about 3 m - ∞.

- While shutter-release button is held down, pictures are recorded at rate of up to about 1.3 frames per second. Number of shots that can be taken is the same as for (Sports) mode.
- When the (▭) battery level indicator is displayed in the monitor, consecutive shooting speed will be slow.

Sport composite



Each time shutter-release button is pressed, camera takes sixteen consecutive shots at rate of about 3.5 frames per second. Camera arranges pictures in four rows (one shot: 568 × 426) to form a single picture (**4M**: 2272 × 1704). Focus, exposure, and white balance are determined by first shot in each series.

⚡	⊘	⏲	**OFF**	✿	**OFF**

Sports Assist

In (Sports) or (Sport composite) mode, **Auto-focus mode** is locked to C-AF **Continuous AF** (94) and focus area is locked in the center of the frame. The camera focuses continuously, until AF/AE lock is set by pressing the shutter-release button halfway.

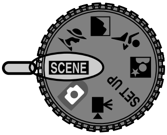
Night Portrait Assist

(night portrait assist) mode is used for taking portrait shots at night, when it provides a natural balance between the main subject and the background. Pictures taken at slow shutter speeds are adjusted to improve quality, slightly increasing processing time.

- Functions for Night portrait assist mode are the same as for Portrait mode (29). When selecting Night Portrait (no framing guide), AF area is fixed at the center of the frame.
- To prevent blurring, mount the camera on a tripod or rest it on a flat, stable surface.
- Noise reduction turns on automatically at slow shutter speeds (95). It takes more time than usual to store the picture.

⚡	Fires for every shooting using the red-eye reduction and slow sync functions.	⏲	**OFF** (changeable)	🌷	**OFF**

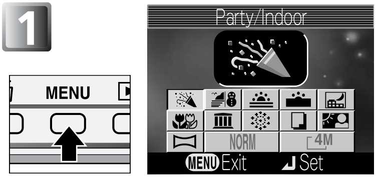
SCENE Scene Mode


SCENE
SET UP

Scene mode

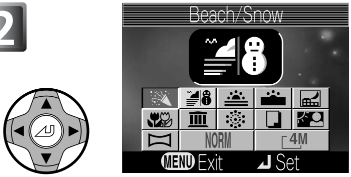
SCENE (scene) mode offers a menu of eleven “scenes,” each corresponding to a common situation, such as a backlit subject, sunset, or interior shot. Camera settings are automatically adjusted to suit the selected scene, sparing you the necessity of adjusting each setting separately. To take pictures in scene mode, rotate the mode dial to SCENE and follow the steps below:

1


MENU
Party/Indoor
NORM
4M
MENU Exit
Set

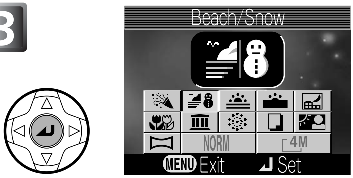
Display scene menu.

2


Beach/Snow
NORM
4M
MENU Exit
Set

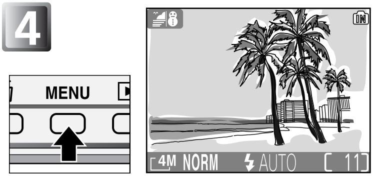
Choose scene. Current selection shown by large icon and caption.

3


Beach/Snow
NORM
4M
MENU Exit
Set

Make selection.

4


MENU
IN
4M NORM
AUTO
11

Press **MENU** button to return shooting mode and take pictures.

- Selected scene shown by icon at top left corner of monitor.

Image Quality and Image Size

It is possible to change **Image quality** (75) and **Image size** (77) from this menu. Select an icon of **Image quality** or **Image size** shown on the right, and press ↵ to change them.

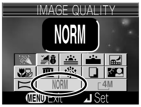


IMAGE QUALITY
NORM
4M
MENU Exit
Set

Image quality

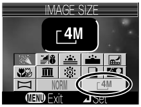


IMAGE SIZE
4M
NORM
MENU Exit
Set

Image size

The following scenes are available:

Party/Indoor

Use for shots that include details of the background, or to capture the effects of candlelight and other indoor background lighting.

- Blur level: ★

⚡	⚡👁 (changeable)	⏲	**OFF** (changeable)	🌷	**OFF**	[⊡]	[▪]

Beach/Snow

Vividly captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water.

⚡	⚡AUTO (changeable)	⏲	**OFF** (changeable)	🌷	**OFF** (changeable)	[⊡]	[▪]

Sunset

Preserves the deep hues seen in sunsets and sunrises.

- Blur level: ★

⚡	⊘	⏲	**OFF** (changeable)	🌷	**OFF**	[⊡]	[▪]

Settings for Scene Modes

- ⚡, ⏲, and 🌷 indicate flash, self-timer, and macro close-up respectively.
- [⊡] indicates that **Metering** is [⊡] **Matrix** (☞ 81).
- [▪] or [∷] indicates **AF area mode**.
  - [▪] **Off**: Center focus area is used.
  - [∷] **Manual**: AF area can be selected manually. For more information, see "AF area mode" (☞ 91).

The ✋ (Camera Shake) Icon

When the ✋ icon appears in the monitor, pictures may be blurred. In this section, the precautions that you can take to avoid blur are indicated by stars:

★ hold the camera in both hands and brace elbows against your body

★ ★ use a tripod or rest the camera on a flat, level surface.

Dusk/Dawn

Preserves the colors seen in the weak natural light before sunrise or after sunset.

- Noise reduction turns on automatically at slow shutter speeds. It takes more time than usual to store the picture.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★

⚡	⊘	⏲	**OFF** (changeable)	🌷	**OFF**	⊡	[▪]

Night landscape

A slow shutter speed is used to produce stunning night landscapes.

- Focus is fixed at infinity.
- Noise reduction turns on automatically at slow shutter speeds. It takes more time than usual to store the picture.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★ ★

⚡	⊘	⏲	**OFF** (changeable)	🌷	**OFF**	⊡	[▪]

Close up

Use to capture vivid colors in close-up shots of flowers, insects, and other small objects, with the background artistically blurred.

- To focus on objects as close as 4 cm (1.6") to the lens, adjust zoom until the macro close-up icon (🌷) in monitor turns green.
- Minimum focus distance varies with zoom position.
- The camera focuses continuously, until AF/AE lock is set by pressing the shutter-release button halfway.
- **AF area mode** is set to [▫] **Manual**. Select a focus area according to your subject (👁93).
- Blur level: ★

⚡	⚡ (changeable)	⏱	**OFF** (changeable)	🌷	**ON**	◙	[▫]

Museum

Use indoors where flash photography is prohibited (for example, in museums and art galleries) or in other indoor settings where you do not want to use the flash.

- The Best Shot Selector (BSS; 👁84) turns on automatically, reducing the effects of inadvertent camera movement.
- Photography may be prohibited altogether in some locations. Be sure to obtain permission first.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★

⚡	⚡	⏱	**OFF** (changeable)	🌷	**OFF** (changeable)	◙	[▪]

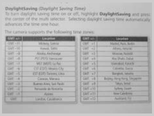
⁂ Fireworks show

Slow shutter speeds are used to capture the expanding burst of light from a firework.

- Focus is fixed at infinity.
- Exposure compensation can not be used.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★ ★

⚡	⊘	⏱	**OFF**	🌷	**OFF**	–	–

❏ Copy



Provides clear pictures of text or drawings on a white board or in printed matter such as a business card.

Colored text and drawings may not show up well in the final picture.

⚡	⊘ (changeable)	⏱	**OFF** (changeable)	🌷	**OFF** (changeable)	▣	[■]

Back light

Use when light is coming from behind your subject, throwing their features into shadow, or when your subject is in the shade but the background is brightly lit.

⚡	⚡	⏱	**OFF** (changeable)	🌷	**OFF**	▣	[■]

⌓ Panorama assist

Use when taking a series of pictures that will later be joined to form a single scene (for example, a panorama or 360° virtual-reality image).

Flash, macro, and exposure modes are fixed at settings for the first shot in a series. Zoom is also fixed at the adjustment for the first shot in a series.

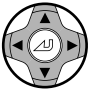
⚡	⊛ (changeable)	⏱	**OFF** (changeable)	🌷	**OFF** (changeable)	▣	[■]

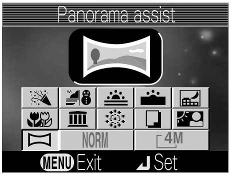
Joining Panorama Pictures

Transfer the pictures taken with Panorama Assist to your computer (📖60) and use an appropriate software application to join them into a single scene.

⋈ Taking Pictures for a Panorama

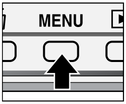
1

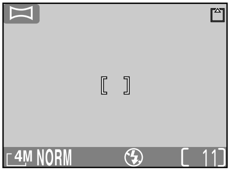



Panorama assist
NORM
4M
MENU Exit
Set

Select ⋈ (Panorama assist) in scene menu, and press ↵.

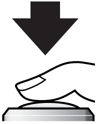
2

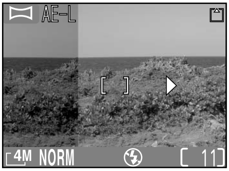




Return to shooting mode.

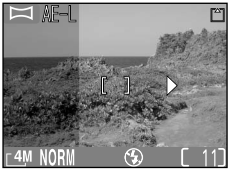
3




AE-L
4M NORM
11

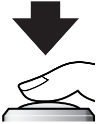
Take first picture. Pan direction (▷) displayed. AE-L icon is displayed, and **White balance** and **Exposure compensation** are locked. About one third of picture is shown superimposed on view through lens.

4


AE-L
4M NORM
11

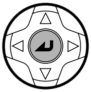
Compose next shot to overlap with previous picture.

5



Take next shot. Repeat steps 4 - 5 until all shots in series have been taken.

6



End series.

- Shooting will also end if pressing the MENU button, playing pictures, changing mode using the mode dial, or entering standby mode.

Full-Screen Playback

When you press the ▶ (play) button after starting shooting, Panorama assist mode is terminated and the most recent picture will be displayed in the monitor.

Use a Tripod

Using a tripod makes it easier to compose overlapping shots.

Storage Locations for Panoramas

Each series of pictures taken in Panorama assist mode is stored in a separate folder with a name consisting of “P_” preceded by a three-digit folder number and followed by a three-digit sequence number (e.g., “101P_001”).

⚡ When Lighting Is Poor: Using the Flash

The following five flash modes are available:

Mode	How it works	When to use it
⚡AUTO Auto	Flash fires when lighting is poor.	Best choice in most situations.
⚡◉ Auto with red-eye reduction	Pre flash is used before the main flash fires to reduce "red-eye." If "red-eye" is detected after an image is taken, the camera will correct "red-eye" when storing the picture.	Use for portraits (works best when subject is well within range of flash and looking at pre-flash). Not recommended when quick shutter response is required.
⊘ Flash Cancel (off)	Flash will not fire even when lighting is poor.	Use to capture natural lighting under dim light or where use of flash is prohibited. If ✋ (camera shake) icon appears, care should be taken to avoid blurring.
⚡ Anytime Flash (fill flash)	Flash fires whenever picture is taken.	Use to "fill-in" (illuminate) shadows and back-lit subjects.
⚡▣ Slow sync	Auto flash combined with slow shutter speeds.	Use to capture both subject and background at night or under dim light. If ✋ (camera shake) icon appears, care should be taken to avoid blurring.

Flash Range

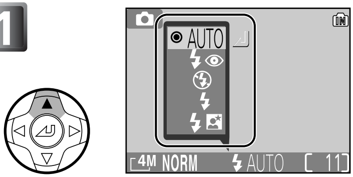
Flash range varies with zoom position. When the camera is zoomed all the way out, the flash has a range of approx. 0.3 - 4.5 m (1' - 14'8"). When the camera is zoomed all the way in, the flash has a range of approx. 0.3 - 3.5 m (1' - 11'5") with **Auto** in **Sensitivity**.

Close-Ups

The flash may not be able to light the entire subject at distances of less than 30 cm (1'). When taking close-ups, play each picture back after shooting to check the results.

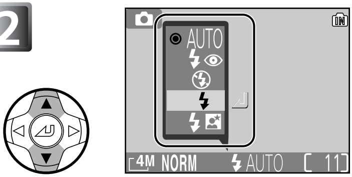
To select the flash mode:

1



Display flash-mode menu.

2



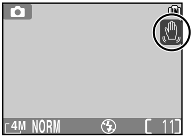
Highlight desired mode and press ⊙ or ▶. Flash mode is displayed in monitor (to exit without changing mode, wait two seconds without pressing any buttons).

Selecting Flash Mode While Using [▫] Manual Option

When **AF area mode** (91) is set to [▫] **Manual** (93) and focus area selection guide is displayed in the monitor, press ⊙ to hide focus area selection guide and press ▲ (⚡) to select the flash mode.

The ✋ (Camera Shake) Icon

When lighting is poor and the flash is off (⊘), shutter speeds will slow and pictures may be blurred. If the shutter speed required for exposure is very slow, a ✋ (camera shake) warning will appear in the monitor. Use of a tripod or support is recommended.



Flash Mode Selection

Flash mode is not available in the following cases:

- **Continuous** is set to **Continuous**, **5 shot buffer** or **Multi-shot 16**.
- **BSS** is set to **On**.
- **Auto bracketing** is set to **On**.
- Taking a picture in some assist modes (28 - 33) or scene modes (34 - 39).

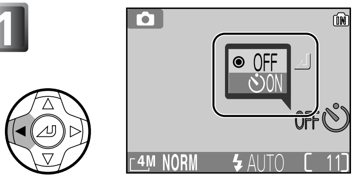
Auto with Red-eye Reduction

The "Auto with red-eye reduction" flash function of the COOLPIX4200 uses an advanced red-eye reduction method. Several pre-flashes are fired before the main flash fires to reduce "red-eye." In addition to this function, if "red-eye" is detected the camera will automatically correct it when storing the picture. Using this function there is slight delay before you can press the shutter release again for the next shot. Depending on the situation, red-eye reduction may not always produce the desired results. In some rare cases, other picture areas may be affected as well as the "red-eye" area. In this case, choose another flash mode and try again.

⏲ Taking a Self-Portrait: Using the Self-Timer

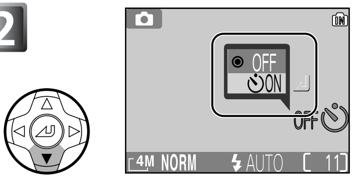
When the self-timer is on, pictures are taken ten or three seconds after the shutter-release button is pressed. This can be used to allow you to appear in your own pictures or to prevent close-up or low-light shots from being blurred by the camera movement that occurs when the shutter-release button is pressed. When using the self-timer, you should either mount the camera on a tripod (recommended) or rest it on a flat, level surface.

1


OFF
ON
OFF
4M NORM
AUTO
11

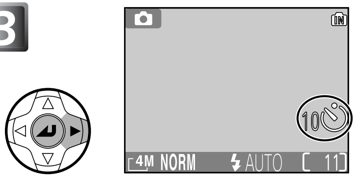
Display self-timer menu.

2


OFF
ON
OFF
4M NORM
AUTO
11

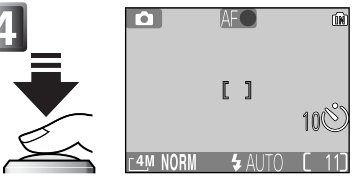
Highlight ⏲ **ON**.

3


10
4M NORM
AUTO
11

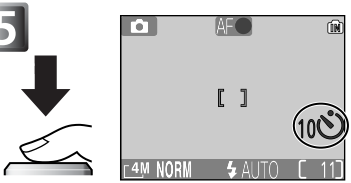
Exit menu. Self-timer icon is displayed in monitor (to exit without setting the self-timer, wait two seconds without pressing any buttons).

4


AF
[ ]
10
4M NORM
AUTO
11

Frame picture and press shutter-release button halfway to set focus and exposure.

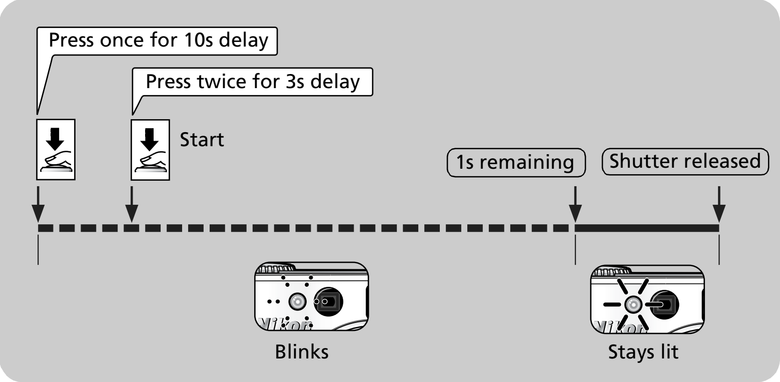
5


AF
[ ]
10
4M NORM
AUTO
11

Start timer. Press once for delay of about ten seconds, twice for delay of about three seconds.

- Countdown timer in monitor shows number of seconds remaining until shutter is released.

The self-timer lamp on the front of the camera will blink until one second before the picture is taken, staying lit during the final second to warn that the shutter is about to be released.



Selecting Self-Timer While Using [▫] Manual Option

When **AF area mode** (☞91) is set to [▫] **Manual** (☞93) and focus area selection guide is displayed in the monitor, press ⊙ to hide focus area selection guide and press ◀ (⏲) to use the self-timer.

Stopping the Self-Timer

To stop the self-timer before picture is taken, press the shutter-release button twice for a ten-seconds delay, or once for a three-seconds delay.

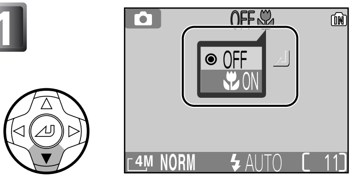
The Self-Timer

- When using the self-timer, mount the camera on a tripod (recommended) or rest it on a flat, level surface.
- The self-timer is not available in some assist modes (☞27 - 33) or scene modes (☞34 - 39).
- When shooting pictures using the self-timer, **Continuous**, **5 shot buffer**, **Multi-shot 16**, **BSS** and **Auto bracketing** are not available. **Continuous**, **5 shot buffer** or **Multi-shot 16** is automatically set to [S] **Single**.
- When **BSS** or **Auto bracketing** is set, the setting will be automatically **OFF** while the self-timer is ON.

🌷 Easy Close-Ups: Macro Close-Up Mode

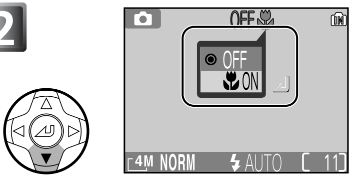
Macro close-up mode is used for taking close-up shots of small objects at very short distances (minimum 4 cm/1.6").

1



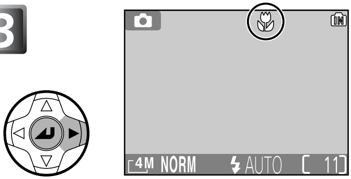
Display macro close-up menu.

2



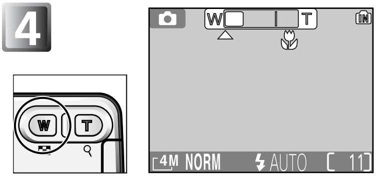
Highlight 🌷**ON**.

3



Exit menu. 🌷 icon appears in monitor when camera is in macro close-up (to exit without setting macro close-up mode, wait two seconds without pressing any buttons).

4



Frame picture.

- If camera is zoomed out until 🌷 icon turns green, camera can focus at distance of 4 cm (1.6").

Selecting Macro Close-Up Mode While Using [∷] Manual Option

When **AF area mode** (📖91) is set to [∷] **Manual** (📖93) and focus area selection guide is displayed in the monitor, press ⏎ to hide focus area selection guide and press ▼ (🌷) to use the macro close-up mode.

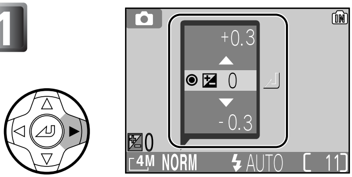
Macro Close-Up Mode

- At short ranges, the viewfinder does not show the exact image area that will appear in the final picture. Use the monitor for close-ups.
- Macro close-up is not available in assist modes (📖27 - 33) or some scene modes (📖34 - 39).

☒ Controlling Exposure: Exposure Compensation

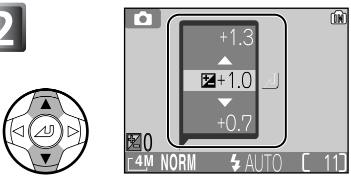
Exposure compensation is used to alter the exposure from the value suggested by the camera. Exposure compensation can be set to values between –2.0 EV (underexposure) and +2.0 EV (overexposure).

1



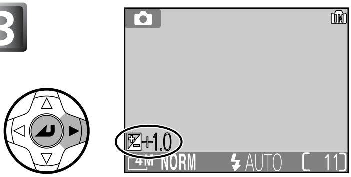
Display exposure compensation menu.

2



Highlight desired value.

3



Exit menu. ☒ icon and a value for exposure compensation are displayed in monitor at settings other than 0 (to exit without changing setting, wait two seconds without pressing any buttons).

Selecting Exposure Compensation While Using [·] Manual Option

When **AF area mode** (📖91) is set to [·] **Manual** (📖93) and focus area selection guide is displayed on the monitor, press ↵ to hide focus area selection guide and press ▶ (☒) to use the exposure compensation.

Cancelling Exposure Compensation

To cancel exposure compensation, select a value of 0. In 📷 (auto shooting) mode, a selected value remains even if the camera is turned off. In another shooting mode, exposure compensation returns to the default value for the selected mode when the camera is turned off or the mode dial is rotated.

Exposure Compensation

Exposure compensation is not available when ✺ (fireworks show) (📖38) is selected in the scene mode.

Choosing a Value for Exposure Compensation

As a rule of thumb, select *positive* values when large areas of the frame are very brightly lit (for example, when photographing an expanse of sunlit water, sand, or snow) or when the background is much brighter than the main subject. Choose *negative* values when large areas of the frame are very dark (for example, when photographing a forest of dark green leaves) or when the background is much darker than the main subject. This is because the camera, in order to avoid extreme under- or over-exposure, tends to lower exposure when the frame is very bright and raise exposure when the frame is very dark. This can make naturally bright subjects look darker and naturally dark subjects appear over-bright, or "washed out."

Selects Movie Types

In the movie mode, the following settings in the movie menu can be selected according to the purpose of playback.

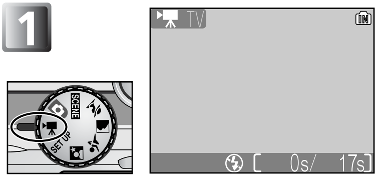
Option	Description	Max. recording time*		
		Memory	Memory card	
		Approx. 12MB	256MB	512MB
TV **TV movie 640** (default setting)	Movies are recorded at 15 frames per second. Each frame is 640 × 480 pixels.	Approx. 17s	Approx. 348s	Approx. 702s
Small size 320	Movies are recorded at 15 frames per second. Each frame is 320 × 240 pixels.	Approx. 39s	Approx. 785s	Approx. 1583s
LP **Smaller size 160**	Movies are recorded at 15 frames per second. Each frame is 160 × 120 pixels. Small size allows longer movies to be recorded.	Approx. 146s	Approx. 2896s	Approx. 5841s

* Approximate maximum total recording time for the memory card is indicated as a guide. Actual total recording time varies depending on the make of memory cards even when they have the same memory capacity.

Movies

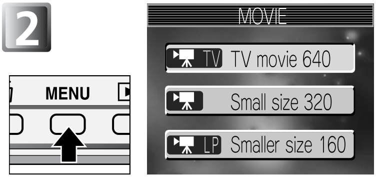
Movies are recorded as Quick Time movie files with the extension ".MOV" and can be played back on a computer after transfer.

1


SCENE
SET UP
TV
0s/ 17s

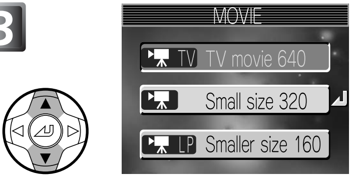
Rotate mode dial to 🎥.

2


MENU
MOVIE
TV TV movie 640
Small size 320
LP Smaller size 160

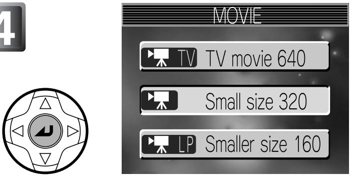
Display MOVIE menu.

3


MOVIE
TV TV movie 640
Small size 320
LP Smaller size 160

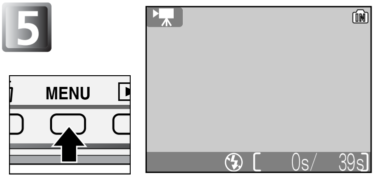
Highlight option.

4


MOVIE
TV TV movie 640
Small size 320
LP Smaller size 160

Make selection.

5



Return to the movie shooting mode.

Auto-focus Mode for Recording Movies

The setting for Autofocus in the movie mode can be set in **Auto-focus mode** (94) in the shooting menu.

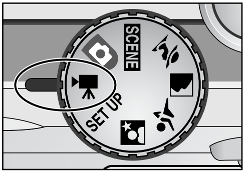
- C-AF **Continuous AF**: The camera adjusts focus continuously. To prevent the sound of the camera focusing from interfering with recording, select a focus mode of S-AF **Single AF**.
- S-AF **Single AF** : The camera focuses when the shutter-release button is pressed halfway. Focus locks when the shutter-release button is pressed the rest of the way down to start recording.

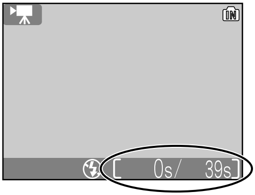
🎥 Mode

- Optical zoom and digital zoom (up to 2.5 ×) can be used before recording, but only digital zoom (up to 2.5 ×) can be used while recording.
- In the movie mode, the following options will be fixed:
  - **Flash mode** (42) is **Flash Cancel**.
  - Self-timer (44) is **OFF**.
  - Exposure compensation (47) can not be set.
  - **White balance** (79) is A-WB **AUTO**.
  - **Metering** (81) is **Matrix**.

Recording Movies

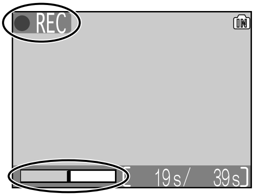
Movies can be recorded with sound recorded via the camera's built-in microphone.





1 Rotate the mode dial to

The monitor shows the elapsed recording time and the total recording time in seconds available for the movie.



2 Start recording

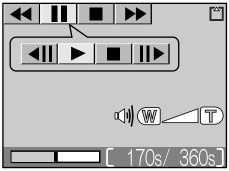
Press the shutter-release button all the way down to start recording.

- Camera focuses on subject in the center of the frame (☞ 50).
- During recording, a ● REC icon blinks and progress will be shown by the indicator at the bottom of the monitor.
- To finish recording, press the shutter-release button again.
- Recording will end automatically when no more space is available in the memory or on the memory card.

Notes on Movies

- Depending on the make of memory card used, recording may end before the memory card is full (☞ 130).
- During recording, do not touch the built-in microphone.
- The progress indicator stops at 9999s. Recording can continue past this point if enough memory is available on the memory card.

Viewing Movies



In the full-screen playback mode (☞41), movies can be played with sound. Movies are indicated by 🎥 icon and can be viewed by pressing ⏎ of the multi selector. Playback controls are displayed at the top of the monitor; press ◀ or ▶ of the multi selector to highlight a control, then press ⏎ to perform the selected operation.

Control	Button	Description
Rewind	◀◀	While movie is in progress, use multi selector to select ◀◀, then press and hold ⏎.
Advance	▶▶	Use multi selector to select ▶▶, then press and hold ⏎. Playback ends at the last frame.
Pause	❚❚	Use multi selector to select ❚❚, then press ⏎ to pause display.
Rewind movie by one frame	◀❚❚	When movie is paused, use multi selector to select ◀❚❚, then press ⏎.
Advance movie by one frame	❚❚▶	When movie is paused, use multi selector to select ❚❚▶, then press ⏎.
Resume	▶	When movie is paused, use multi selector to select ▶, then press ⏎.
Stop	■	Use multi selector to select ■, then press ⏎ to return to playback mode.

Playback Volume

The zoom buttons control volume during playback. Press ▦ (**W**) button to decrease volume, 🔍 (**T**) button to increase.

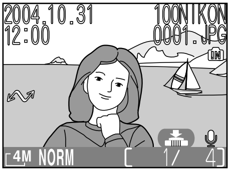
Deleting Movies

To delete a movie, press the 🗑 (Delete) button. The confirmation dialog will be displayed; press ▲ or ▼ of the multi selector to highlight an option, then press ⏎.

- **Yes**: delete the movie and return to playback mode
- **No**: exit to playback mode without deleting the movie

Viewing Pictures on the Camera

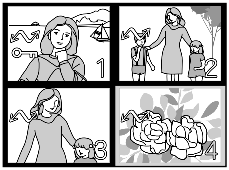
Viewing Pictures: Full-Screen Playback



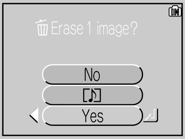
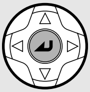
Pressing the ▶ button in the shooting mode will display recorded pictures full-screen in the monitor (**full-screen playback mode**).

- Pressing ⊛ displays a histogram (📷54).
- Pressing the ▶ button while the camera is in the playback mode, returns to the screen selected on the mode dial.

Viewing Multiple Pictures: Thumbnail Playback

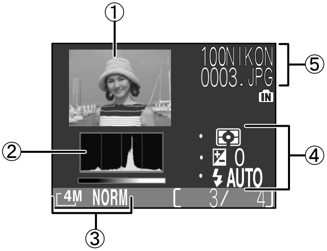


Pressing the ▦ (**W**) button in full-screen playback displays the pictures in the memory or on the memory card in “contact sheets” of four thumbnail images.

To	Press	Description
Highlight pictures		Press ▲, ▼, ◀ or ▶ to highlight pictures.
Change number of pictures displayed	▦ (**W**)/ 🔍 (**T**)	With four thumbnails displayed, press ▦ (**W**) button once to view nine thumbnails. Press 🔍 (**T**) button to “zoom in” from nine thumbnails to four-thumbnail view or, when four thumbnails are displayed, to return to full-screen playback mode.
Delete highlighted picture	🗑	The confirmation dialog will be displayed. Press ▼ to highlight **Yes**, and press ⊛ to delete the picture. • **No**: Return to playback mode without deleting a picture. • [♪]: Delete only the voice memo recorded with a picture (📷57).  🗑 Erase 1 image? No [♪] Yes
Cancel thumbnail playback		A selected picture is displayed in full-screen playback mode.

Histogram

When pressing ⊘ in the full-screen playback mode, a histogram is displayed.



① Thumbnail preview

② Histogram
- Shows distribution of tones in image; horizontal axis corresponds to pixel brightness, with dark tones to left and bright tones to right, while vertical axis shows number of pixels of each brightness in the image.
- The scale of an axis is determined by the maximum number of pixels of a picture.

③ Image mode (Image quality/Image size)

④ Exposure information (metering, exposure compensation, flash mode)

⑤ Folder name
File name

Images in the Memory

The pictures in the memory and on the memory card can not be displayed simultaneously. To display pictures stored in the memory, select either of the following:

- Remove the memory card from the camera (📖 11), and display the pictures.
- Copy pictures stored in the memory to a memory card (📖 106), and display the pictures.

Shooting Information

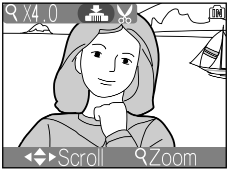
The shooting conditions displayed in the full-screen playback mode or shooting mode can be specified. See **Monitor settings** (📖 115) in the setup menu.

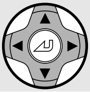
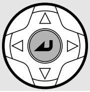
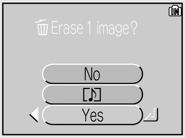
Movies

A histogram of movie can not be displayed.

Taking a Closer Look: Playback Zoom

Use the 🔍 (**T**) button to zoom in on still images displayed in full-screen playback.



To	Press	Description
Zoom in	🔍 (**T**)	Zoom increases each time button is pressed, to a maximum of 6×. While image is zoomed in, 🔍 icon and zoom ratio are displayed in top left corner of monitor.
View other areas of picture		Use multi selector to scroll to areas of picture not visible in monitor. To use multi selector to view other pictures, cancel zoom.
Zoom out	⊞ (**W**)	Zoom decreases each time button is pressed in playback zoom. To cancel zoom, zoom picture out until entire picture is displayed. To view the previous or next picture, cancel the playback zoom before using the multi selector.
Cancel zoom		Cancel zoom and return to full-screen playback.
Crop picture	Shutter-release button	Only portion of picture visible in monitor can be cropped (📖 56).
Delete picture	🗑	The confirmation dialog will be displayed, when you press 🗑 button. Press ▼ on the multi selector to highlight **Yes**, and press ↵ to delete the picture. • **No**: Return to full-screen playback without deleting the picture. • [♪]: Delete only the voice memo recorded with a picture (📖 57). 

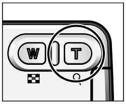
Playback Zoom

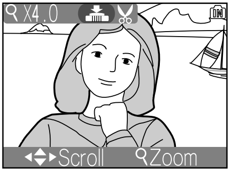
Playback zoom is not available with movies (📖 51), copies created using the small picture (📖 105), or cropped copies (320 × 420 pixels or smaller) (📖 56).

Cropping Pictures

When a picture is displayed in the playback zoom mode (☞55), you can crop part of a picture and save it as a separate file.

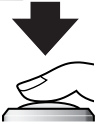
1

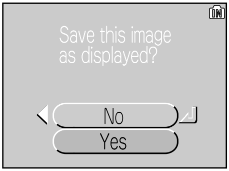




Zoom picture in and out.
Press ▲, ▼, ◀ or ▶ to scroll picture until desired portion of image is displayed in monitor.

2





Save this image as displayed?

The confirmation dialog displayed. Press ▼ to highlight **Yes**, and press ⏎ to create cropped copy.

- To exit without creating copy, highlight **No** and press ⏎.

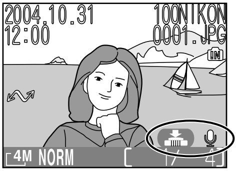
- Cropped pictures are stored in JPEG format as separate pictures from the original pictures.
- Depending on the size of the original and the zoom ratio at the time the copy was created, copies will be 2,048×1,536 3M, 1,600×1,200 2M, 1,280×960 PC, 1,024×768 PC, 640×480 TV, 320×240 ▪, or 160×120 ▪ pixels in size.
- Copies are stored in separate files in the memory or on the memory card with names of the form "RSCN*nnnn*.JPG," where "nnnn" is a four-digit number assigned automatically by the camera.
- Cropped copies have the same recording time and date as the original picture.

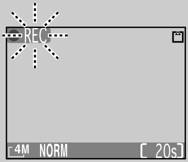
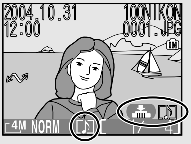
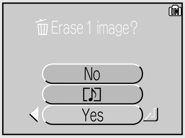
Photo Trim

- Cropped copies and copies created using the small picture can not be cropped.
- A cropped copy created using the COOLPIX4200 may not display on a different camera. Also, it may not be possible to transfer such a cropped copy to a computer.

Voice Memos: Recording and Playback

A voice memo can be recorded using the built-in microphone (📖2) and appended to any picture marked with ⬇🎙 (voice memo recording guide) icon shown in full-screen playback (📖53).



To	Press	Description
Record voice memo	⬇ Shutter-release button	If ⬇🎙 icon is displayed on current picture, memo will be recorded when shutter-release button is held down. During recording, ● REC icon blinks. Recording ends after about 20s or when shutter-release button is released. 
Play voice memo	⬇ Shutter-release button	Pictures with voice memos are marked by ⬇♪ icon and ♪ icon displayed in the full-screen playback mode. Press shutter-release button to play voice memo. Playback ends when voice memo ends or shutter-release button is pressed again.  2004.10.31 12:00 100NIKON 0001.JPG IN 4M NORM 1/ 4
Change volume	▦ (**W**)/ 🔍(**T**)	Zoom buttons control volume during playback. Press ▦ (**W**) button to lower volume, 🔍 (**T**) button to increase.
Delete voice memo	🗑	The confirmation dialog will be displayed. Press ▼ on the multi selector to highlight ♪, and press ⊛. Only a voice memo will be deleted. • **No**: Exit without deleting picture or voice memo • **Yes**: Delete both picture and voice memo  🗑 Erase 1 image? No ♪ Yes

Storage

Voice memo file names consist of an identifier ("DSCN" for memos appended to original pictures), a four-digit file number copied from the associated picture, and the extension ".WAV" (e.g., "DSCN0015.WAV").

Notes on Voice Memos

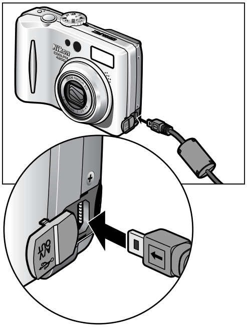
- Voice memos can not be recorded or played during thumbnail playback (👁 53) and playback zoom (👁 55).
- Voice memos can not be recorded for movies (👁 51).
- If a voice memo already exists for the current picture, it must be deleted before a new memo can be recorded.
- Do not touch the microphone during recording.

Viewing Pictures on TV

The EG-CP14 audio/video (A/V) cable provided with your camera can be used to connect the camera to a television or video-cassette recorder (VCR).

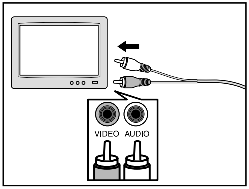
Choosing Video Mode

Video mode in the camera setup menu offers a choice of **NTSC** and **PAL** standards (121). Be sure that the standard selected matches that used in the device.



1 **Turn the camera off**
Turn the camera off before connecting or disconnecting the A/V cable.

2 **Connect the A/V cable to the camera**
Open the interface connector cover and insert the black plug of the A/V cable into the camera's Audio/Video (A/V) out connector.



3 **Connect the A/V cable to the television or VCR**
Insert the yellow plug of the A/V cable into the video-in jack on your television or VCR and the white plug into the audio-in jack.

4 **Tune the television to the video channel**
For more information, see the manual for your television or VCR.

5 **Turn the camera on**
Press the ▶ button for at least two seconds to turn the camera on. The camera monitor will remain off and the television will display the image normally shown in the monitor.

Viewing Pictures on a Computer

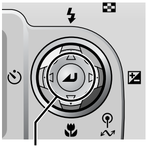
Using the UC-E6 USB cable and provided software with your camera, you can view your photographs and movies on a computer. Before you can transfer (copy) pictures to your computer, you will need to install provided software. For more information on installing provided software and transferring pictures to your computer, see the *Quick Start Guide* and the *provided software Reference Manual* (on CD).

Before Connecting the Camera

Pictures can be copied from the camera to the computer by:

- Pressing the ⊙ (Transfer 〰) button on the camera (📖3)
- Clicking the Transfer button in provided software

Which method you will use depends on your computer's operating system and the USB option selected in the camera setup menu. After consulting the following table, select the appropriate option using **USB** in the camera setup menu. The default setting is **Mass storage**.



⊙ (Transfer 〰) button

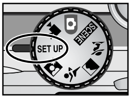
Operating system	Pictures transferred using:	
	Camera ⊙ (Transfer 〰) button	Provided software Transfer button
Windows XP Home Edition Windows XP Professional	Choose **Mass storage** or **PTP**.	
Windows 2000 Professional Windows Millennium Edition (Me) Windows 98 Second Edition (SE)	Choose **Mass storage**.	
Mac OS X (10.1.5 or later)	Choose **PTP**.	Choose **Mass storage** or **PTP**.

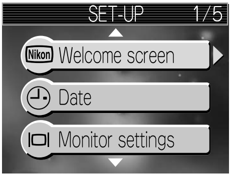
The Write Protect Switch

The camera ⊙ (Transfer 〰) button can not be used to transfer pictures when the memory card write protect switch is in the lock position (📖11).

Choosing a USB Option

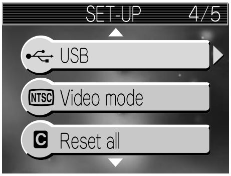
1


SET UP
SCENE


SET-UP 1/5
Nikon Welcome screen
Date
Monitor settings

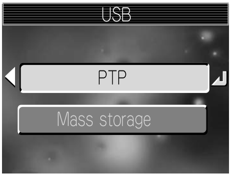
Select SET UP mode.

2


SET-UP 4/5
USB
NTSC Video mode
C Reset all

Highlight **USB** and press ▶.

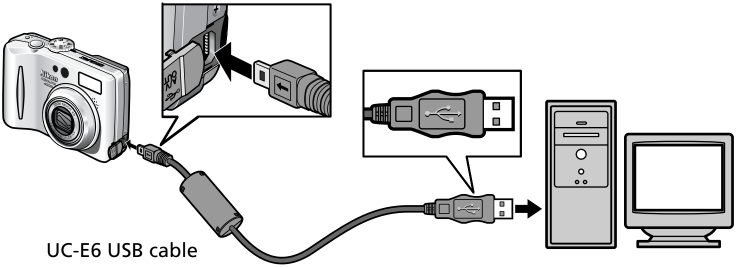
3


USB
PTP
Mass storage

Select PTP or Mass storage, and press ⏎.

Connecting the USB Cable

Turn the computer on and wait for it to start up. After confirming that the camera is off, connect the UC-E6 USB cable (provided with your camera) as shown below. Connect the camera directly to the computer; do not connect the cable via a USB hub or keyboard.



You can now turn the camera on and transfer pictures. See the *Quick Start Guide* for details.

Windows 2000 Professional, Windows Millennium Edition (Me), Windows 98 Second Edition (SE)

Do not select **PTP** when connecting the camera to a computer running one of the above operating systems. If you have connected the camera to a computer running one of the above operating systems with **PTP** selected in **USB**, disconnect the camera as described below. Be sure to select **Mass storage** before reconnecting the camera.

Windows 2000 Professional

A dialog will be displayed welcoming you to the Found New Hardware Wizard. Click **Cancel** to close the dialog, and then disconnect the camera.

Windows Millennium Edition (Me)

After displaying a message stating that the hardware information database is being updated, the computer will start the Add New Hardware Wizard. Click **Cancel** to exit the wizard, and then disconnect the camera.

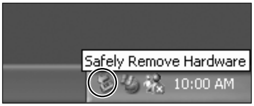
Windows 98 Second Edition (SE)

The Add New Hardware Wizard will be displayed. Click **Cancel** to exit the wizard, and then disconnect the camera.

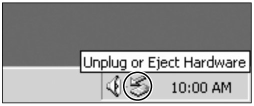
Disconnecting the Camera

When **PTP** is selected in **USB**:
You can turn the camera off and disconnect the USB cable once transfer is complete.

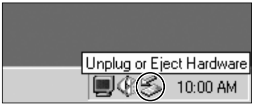
When **Mass storage** (default setting) is selected in **USB**:
You must remove the camera from the system as shown below before turning the camera off and disconnecting the cable.


Safely Remove Hardware
10:00 AM

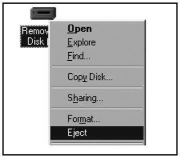
Windows XP Home Edition/Windows XP Professional
Click the (Safely Remove Hardware) icon in the taskbar and select **Safely remove USB Mass storage Device** from the menu that appears.


Unplug or Eject Hardware
10:00 AM

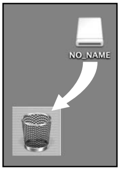
Windows 2000 Professional
Click the (Unplug or Eject Hardware) icon in the taskbar and select **Stop USB Mass storage Device** from the menu that appears.


Unplug or Eject Hardware
10:00 AM

Windows Millennium Edition (Me)
Click the (Unplug or Eject Hardware) icon in the taskbar and select **Stop USB Disk** from the menu that appears.


Remov
Disk
Open
Explore
Find...
Copy Disk...
Sharing...
Format...
Eject

Windows 98 Second Edition (SE)
In My Computer, click with the right mouse button on the removable disk corresponding to the camera and select **Eject** from the menu that appears.



Mac OS X

Mac OS X
Drag the “NO_NAME” camera volume into the Trash.

Printing Pictures

Pictures stored in the internal memory or on the memory card can be printed in the same way as pictures taken with a film camera. Using **Print set** in the playback menu, you can specify the pictures to be printed, the number of prints, and the information to be included with each print.

Printing Pictures

Stored pictures in the internal memory or on the memory card can be printed as follows:

How to print	Memory card	The memory	☞
Take the memory card to a digital photo lab.	Take the memory card containing pictures for which DPOF (Digital Print Order Format) is created using **Print set*** to a digital photo lab, and ask for them to be printed.	Copy (☞ 106) the pictures to the memory card, and print as described on the left. Depending on the digital photo lab, take the camera and ask for printing.	65
Use a printer equipped with a card slot.	Insert the memory card containing pictures for which DPOF (Digital Print Order Format) is created using **Print set*** into a printer equipped with a card slot, and print them.		65
Use a printer that supports PictBridge.	Connect the camera to a printer that supports PictBridge, and print pictures.		68
Transfer the pictures to a computer and print them.	For more information, see the *provided software Reference Manual* (on CD).		–

* If **Print set** is not set, one copy of all pictures is printed.

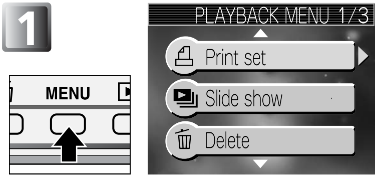
Printing the date and time of recording on pictures

- Before taking pictures set the **Date imprint** option in the setup menu (☞ 67, 116).
- If the printer or print service supports Digital Print Order Format (DPOF), use the **Date** option in the **Print set** in the playback menu (☞ 65, 67).
- Transfer the pictures to a computer using provided software and print them using provided software print settings. For more information, see the *provided software Reference Manual* (on CD).

⎙ Print Set

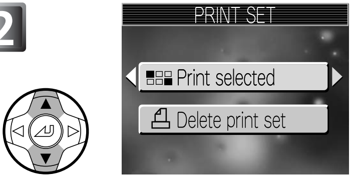
Print set in the playback menu is used to create digital "print orders" listing the pictures to be printed, the number of prints, and the information to be included on each print. This print order is stored on the memory card in Digital Print Order Format (DPOF). Once a print order has been created, pictures can be printed directly from the memory card by inserting it in a DPOF-compatible device. Alternatively, you could take the memory card to a digital photo lab which supports DPOF. Pictures can also be printed using **Print set** settings, by connecting the camera to a printer supporting PictBridge (☞68).

1


MENU
PLAYBACK MENU 1/3
Print set
Slide show
Delete

Pressing **MENU** button in the playback mode displays the playback menu. Highlight **Print set** and press ▶.

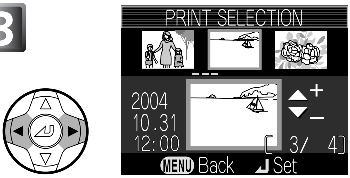
2


PRINT SET
Print selected
Delete print set

Highlight **Print selected** and press ▶.

- To cancel all print settings, highlight **Delete print set** and press ⊙.

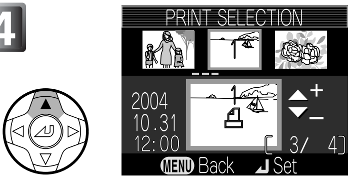
3


PRINT SELECTION
2004
10.31
12:00
[3/ 4]
MENU Back
Set

Scroll through pictures.

- Current picture shown at bottom of display.

4

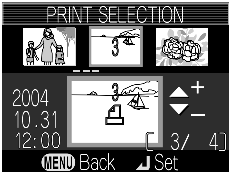

PRINT SELECTION
1
2004
10.31
12:00
[3/ 4]
MENU Back
Set

Select current picture. 1 (number of prints) and ⎙ icon are marked on the selected picture.

DPOF

DPOF (Digital Print Order Format) is a recording format that stores the print order, such as pictures or quantity to be printed and recording date, and the shooting information, on the memory card. Before using this option, check that the digital photo lab or printer supports DPOF.

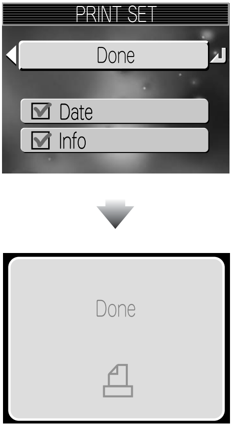
5


PRINT SELECTION
3
2004
10.31
12:00
3
+
–
[3/ 4]
MENU Back
Set

Use ▲ (+) or ▼ (–) to specify number of prints (up to 9).

- To deselect picture, press ▼ (–) down when number of print is 1.
- Repeat steps 3 - 5 to select additional pictures.
- To exit without setting print order and return to the playback menu, press **MENU** button.

6


PRINT SET
Done
☑ Date
☑ Info
Done

Menu of print options displayed.

- To print date of recording on all pictures in print order, highlight **Date** and press ↵. ✔ will appear in box next to item.
- To print shutter speed and aperture on all pictures in print order, highlight **Info** and press ↵. ✔ will appear in box next to item.
- To turn selected item off, highlight and press ↵.
- To complete print order and return to playback, highlight **Done** and press ↵.
- To return to previous display, press ◀.

Print Set

If you display the Print set menu after creating a print order, the **Date** and **Info** options will be reset.

Difference Between Date Imprint and Date

There are differences between **Print set** in the playback menu and **Date imprint** in the setup menu as follows:

- Setting **Date** in the **Print set** option:
  - A date set in **Print set** can be printed only with a printer that supports date-print configuration for DPOF (65).
  - You can set after taking pictures.
  - A date is not imprinted on the images, but recorded in the DPOF setting files. When printing, a date on the picture can be printed as if it is imprinted on the image. The position of the date depends on the printer.
- Setting **Date imprint**:
  - A date can be printed without any other setting because it is imprinted on the images.
  - You need to make setting before taking pictures.
  - A date is imprinted on the images and the position of the date is fixed at the bottom right corner of the images.
  - Once a date is imprinted, it can not be deleted from the image.
- When both **Print set** and **Date imprint** are set, the date of **Date imprint** option will be printed even if using a printer that supports DPOF.

Date

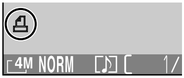
If Date is selected, the date of recording will appear on pictures printed using DPOF. The date to be printed will remain unchanged even if **Date** in the setup menu is changed after shooting pictures. If a picture is taken without setting date, it will not be printed even if the ✓ icon is added to the date in the Print set menu.

Notes on Print Set

No more than 999 pictures can be selected for **Print set**.

The Print-Order Icon

During the playback mode, a ⎙ icon appears on all pictures in the current print order.



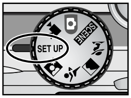
Printing via Direct USB Connection

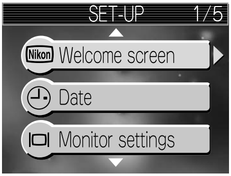
Your camera allows pictures to be printed directly from the camera using PictBridge. If the UC-E6 USB cable is used to connect the camera to a printer that supports PictBridge, pictures can be printed directly from the memory or the memory card without having to be transferred to a computer.

1 Choosing PTP in the USB Menu

Select **PTP** in the **USB** menu before connecting the camera to a printer.

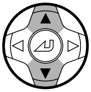
1

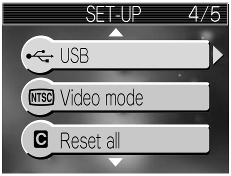




Rotate the mode dial to SET UP and turn the camera on. The setup menu will be displayed in the monitor.

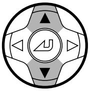
2

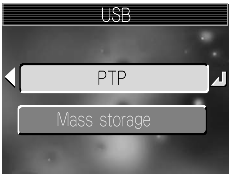




Highlight **USB** and press ▶.

3





Highlight PTP and press ↵.

Before Printing

- Before printing via a direct USB connection, make sure that the printer supports PictBridge.
- Before starting direct printing, check printer settings. See the printer manual for details.

Use a Reliable Power Source

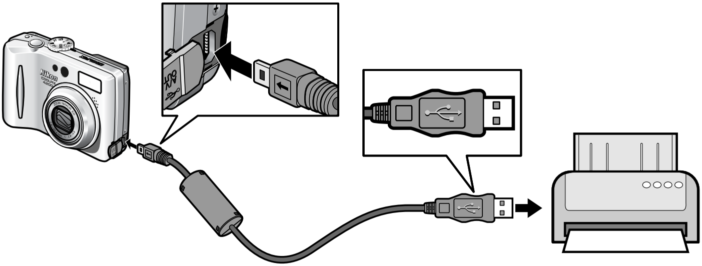
When printing pictures via a direct USB connection, be sure the battery is fully charged. If in doubt, recharge the battery before printing or use the optional EH-62A AC adapter kit (☞ 124).

PictBridge

PictBridge is an industry standard for direct printing that ensures compatibility when different devices are connected.

2 Connecting the USB Cable

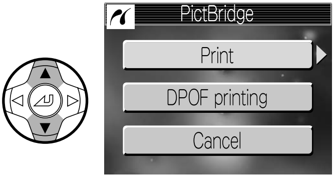
After turning the camera off, connect the camera to the printer with the UC-E6 USB cable (provided with your camera) as shown below.

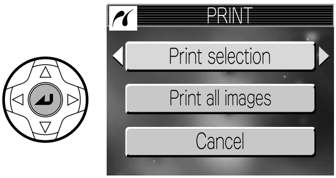


3 Turning the Camera and Printer on

The PictBridge menu will be displayed in the camera monitor.

1 Press ▲ or ▼ to highlight **Print**, and press ▶.

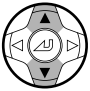

PictBridge
Print
DPOF printing
Cancel

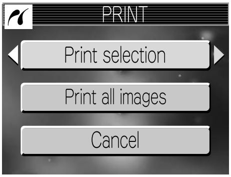

PRINT
Print selection
Print all images
Cancel

is the PictBridge logo.

Option	Description
Print selection	Select pictures and specify number of prints.
Print all images	All pictures in the memory or the memory card are printed.
DPOF printing	Pictures for which print order has been created are printed accordingly (72).

2

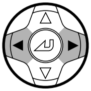


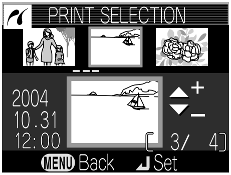

PRINT
Print selection
Print all images
Cancel

Highlight **Print selection** and press ▶.

- To print one copy of all pictures in the memory or on the memory card, highlight **Print all images** and press ↵.

3

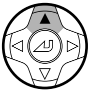


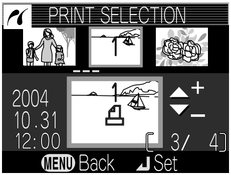

PRINT SELECTION
2004
10.31
12:00
+
–
3/ 4
MENU Back
Set

Scroll through pictures.

- Current picture shown at bottom of display.

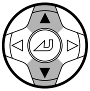
4

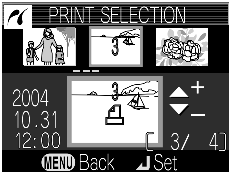



PRINT SELECTION
1
2004
10.31
12:00
+
–
3/ 4
MENU Back
Set

Select current picture. 1 (number of prints) and ⎙ icon are marked on the selected picture.

5

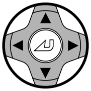


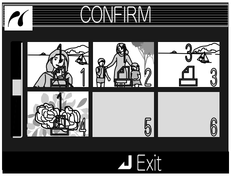

PRINT SELECTION
3
2004
10.31
12:00
+
–
3/ 4
MENU Back
Set

Use ▲ (+) or ▼ (–) to specify number of prints (up to 9) and press ↵.

- To deselect picture, press ▼ (–) down when number of print is 1.
- Repeat steps 3 - 5 to select additional pictures.
- To exit without printing and return to the playback menu, press **MENU** button.

6

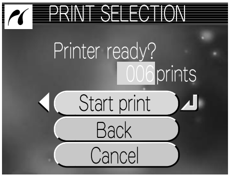



CONFIRM
1
2
3
4
5
6
Exit

View selected pictures. Press ▲, ▼, ◀ or ▶ to view pictures not visible in display.

After confirming selection, press ↵ to display the confirmation dialog.

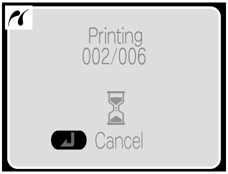
7



Printer ready?
006 prints

Check the confirmation dialog and highlight option, then press ↵ to:

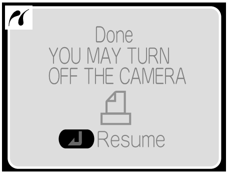
- Select **Start print** to start printing.
- Select **Back** to return to print selection dialog shown in Step 3.
- Select **Cancel** to exit without printing pictures.



Printing
002/006

To interrupt printing, press ↵, then turn camera off and disconnect USB cable.

8



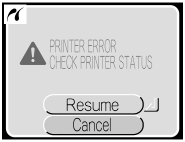
Done
YOU MAY TURN
OFF THE CAMERA

Message shown on the left is displayed when printing is complete. Turn camera off and disconnect USB cable.

- To print continuously press ↵. The display returns to the PictBrigde dialog (👁 69).

Error Messages

If an error message is displayed, an error has occurred. After checking the printer and resolving any problems as directed in the printer manual, highlight **Resume** and press ↵ to resume printing. Select **Cancel** to exit without printing the remaining images.



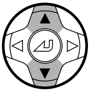
PRINTER ERROR
CHECK PRINTER STATUS

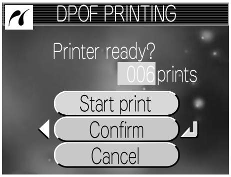
To Directly Print the Pictures Specified in a Print Set

The pictures stored in the memory or on the memory card are printed directly, according to the print order specified in **Print set** (☞65).

If selecting **DPOF printing** after connecting the camera to a printer that supports PictBridge (☞69), the DPOF printing dialog will be displayed.

1

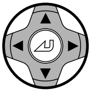


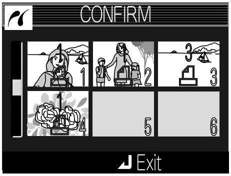

DPOF PRINTING
Printer ready?
006 prints
Start print
Confirm
Cancel

Highlight **Confirm** and press ⏎.

- To exit without printing pictures, highlight **Cancel** and press ⏎.

2

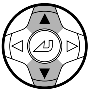


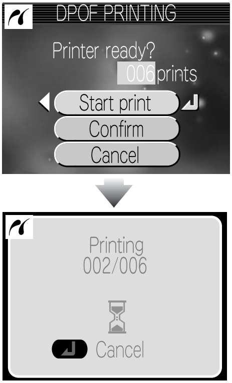

CONFIRM
1
2
3
3
4
5
6
Exit

View selected pictures.

Press ▲, ▼, ◀ or ▶ to view pictures not visible in display. After confirming print order, press ⏎.

3



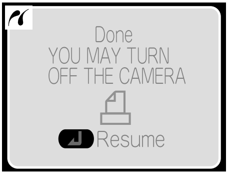

DPOF PRINTING
Printer ready?
006 prints
Start print
Confirm
Cancel
Printing
002/006
Cancel

Check the confirmation dialog and highlight option, then press ⏎ to:

- Select **Start Print** to start printing.
- Select **Confirm** to return to confirm dialog shown in Step 2.
- Select **Cancel** to exit without printing pictures.

To interrupt printing, press ⏎.

4


Done
YOU MAY TURN
OFF THE CAMERA
Resume

Message shown on the left is displayed when printing is complete. Turn camera off and disconnect USB cable.

- To print continuously, press ⏎. The display returns to the PictBrigde dialog (☞69).

DPOF Printing

- **DPOF printing** is only available if a print order has been created for the pictures stored in the memory or a memory card using **Print set**.
- When printing with a printer that supports PictBridge, Info can not be printed even if Info is set in Print set.

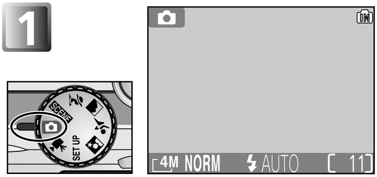
Using the Shooting Menu

In 📷 (auto) modes, the following settings can be adjusted from the shooting menu:

Option	Description	🔍
Image mode	Choose image quality and size.	75 - 78
White balance	Match white balance to your light source.	79 - 80
Metering	Select a metering method from **Matrix**, **Center-weighted** or **Spot**.	81
Continuous	Select shooting method from **Single** (one shot recorded), **Continuous**, **Multi-shot 16**, and **5 shot buffer**.	82
BSS	Turn the Best Shot Selector (BSS) on or off.	84
Image adjustment	Adjust exposure for very bright, very dark, or high-contrast subjects.	85
Image sharpening	Control how much outlines in your pictures are sharpened.	86
Sensitivity	Help exposure compensation and minimize blur when lighting is poor and the flash is off.	87
Auto bracketing	Allow continuous shooting with gradually changing exposure or white balance.	88
Saturation control	Adjust vividness of the color of a picture.	90
AF area mode	Select an area to be focused from **Auto**, **Manual** and **Off**.	91
Auto-focus mode	Select an Auto-focus mode of **Continuous AF** or **Single AF**.	94
Noise reduction	Reduce dotted noise contained in a picture taken at low shutter speed.	95

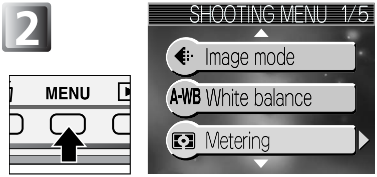
To Display the Shooting Menu:

1


SCENE
SET UP
4M NORM
AUTO
11

Rotate the mode dial to 📷 (auto shooting).

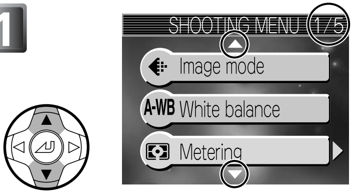
2


MENU
SHOOTING MENU 1/5
Image mode
A-WB White balance
Metering

Display shooting menu.

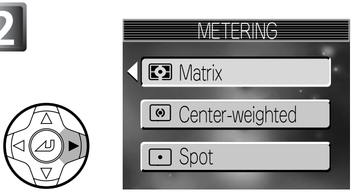
To Make a Selection from the Shooting Menu:

1


SHOOTING MENU 1/5
Image mode
A-WB White balance
Metering

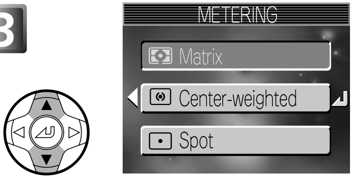
Highlight menu item.
A page number (e.g., 1/2, 1/5), △ and ▽ indicate that a menu or option consists of multiple pages. Press ▲ or ▼ to display the previous or next page.

2


METERING
Matrix
Center-weighted
Spot

Display options.

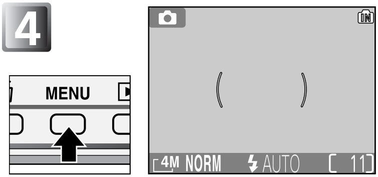
3


METERING
Matrix
Center-weighted
Spot

Highlight option and press ↵ to make selection.

- To return to previous step, press ◀.

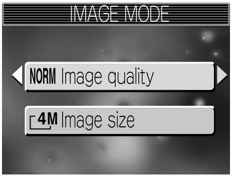
4


MENU
4M NORM
AUTO
11

Press **MENU** button to exit menu and return to the shooting mode.

Image Mode

Press **MENU** button in 📷 (auto shooting) mode to select the **Image mode** (🕮 74), and then press ▶.

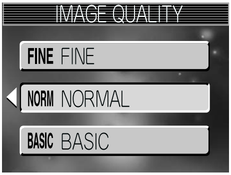


The size of the files, and with it the number of images that can be recorded on the memory or the memory card, depends on the size and quality of the images. Before shooting, choose an image quality and size according to how you plan to use the picture.

Image Quality

Images are compressed according to the image quality setting for storing.

Select from the following three options and press ⊙.



Option	Format	Description	Compression
FINE	**JPEG**	Fine image quality, suitable for enlargements or high quality prints. File size reduced to roughly 1/4 of its original size.	Low
NORMAL (default setting)		Normal image quality, suited to most applications. File size reduced to roughly 1/8 of its original size.	↕
BASIC		Basic image quality, suitable for pictures that will be distributed by e-mail or used in web pages. File size reduced to roughly 1/16 of its original size.	High

Image Quality and Compression

The process of reducing the file size of a picture when storing it is called compression. In this camera, pictures are compressed and recorded as JPEG files.

- The more a picture is compressed, the smaller the picture size becomes and the larger the number of pictures that can be stored in memory or on a memory card. However, the quality of the image is degraded and the reproducibility of the image's fine areas is reduced.
- The less a picture is compressed, the larger the picture size becomes and the smaller the number of pictures that can be stored in memory or on a memory card. However, it maintains the presentation of the image's fine areas and increases the image quality.

Image Quality Setting

Image quality can be also selected in the assist modes (28) or scene modes (34).

Image Size

Image size can be selected from the following five options according to your shooting intent:

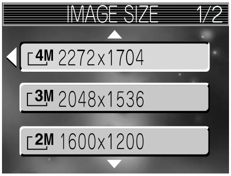


IMAGE SIZE 1/2

4M 2272x1704

3M 2048x1536

2M 1600x1200

Image size (pixels)	Print size (cm)*
4M 2272 × 1704 (default setting)	About 19 × 14 (7.5" × 5.3")
3M 2048 × 1536	About 17 × 13 (6.7" × 5.1")
2M 1600 × 1200	About 14 × 10 (5.3" × 4")
PC 1024 × 768	About 9 × 7 (3.4" × 2.6")
TV 640 × 480	About 5 × 4 (2.1" × 1.6")

* All figures are approximate. Print sizes assume a printer resolution of approximately 300dpi.

Image Size

Smaller images create smaller files suitable for transmission by e-mail or for use in web pages. When printed in larger sizes, however, small images will be rough and uneven in appearance. The size of images when printed depends on the printer resolution: the higher the resolution, the smaller the final print size.

Image Size Setting

Image size can be also selected in the assist modes (☞28) or scene modes (☞34).

Image Quality/Size and Number of Exposures Remaining

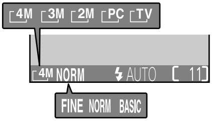
The following table shows the approximate number of pictures that can be stored on 256-, 512-megabyte memory cards at different image modes. The number of exposures remaining varies widely, depending on the type of memory card, the nature of JPEG compression, or the content of the image.

Image mode		Memory	Memory card*	
Image size	**Image quality**	**Approx. 12MB**	**256MB**	**512MB**
4M 2272 × 1704	FINE	5	116	234
	NORMAL	11	225	455
	BASIC	21	427	860
3M 2048 × 1536	FINE	7	142	286
	NORMAL	13	274	553
	BASIC	25	512	1033
2M 1600 × 1200	FINE	11	227	458
	NORMAL	21	429	867
	BASIC	38	774	1561
PC 1024 × 768	FINE	25	512	1033
	NORMAL	45	905	1826
	BASIC	73	1469	2963
TV 640 × 480	FINE	54	1088	2194
	NORMAL	85	1701	3431
	BASIC	118	2368	4775

* If memory remains for more than 999 pictures, camera exposure count display will show 999.

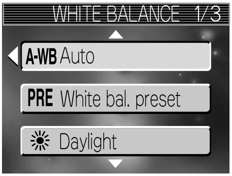
Image Mode

The current image mode (image quality and size) is shown by an icon at the bottom left corner of the monitor.



White Balance

Press **MENU** button in 📷 (auto shooting) mode to select **White balance** (74), and then press ▶.


WHITE BALANCE 1/3

A-WB Auto

PRE White bal. preset

☀ Daylight

About White Balance

The color of the light reflected from an object varies with the color of the light source. The human brain is able to adapt to such changes in color, with the result that we see white objects as white, regardless of whether they are in the shade, direct sunlight, or under incandescent lighting. Digital camera can mimic this adjustment by processing information from the camera's image sensor (CCD) according to the color of the light source. This process is known as a "white balance adjustment."

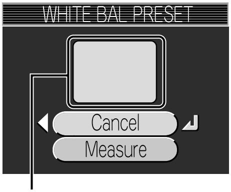
If **White balance** has been set to A-WB **Auto** and the results are not to your satisfaction or when shooting under the special light sources or conditions, use the following white balance settings other than A-WB **Auto**.

Select from the following nine options and press ↵.

Option		Description
A-WB **Auto** (default setting)		White balance automatically adjusted to suit lighting conditions. Best choice in most situations.
PRE **White bal. preset**		Gray object used as reference to set white balance under unusual lighting conditions.
☀ **Daylight**		White balance adjusted for direct sunlight.
Incandescent		Use under incandescent lighting.
Fluorescent	**FL1**	Use under most types of fluorescent lighting. Press ▶, and select **FL1** (White (W)) or **FL2** (Daylight White/Natural (N)) according to the bulb types, and then press ↵.
	FL2	
☁ **Cloudy**		Use when taking pictures under overcast skies.
Shade		Use under sunny skies when your subject is in the shade.
⚡ **Speedlight**		Use with the flash.

PRE Preset White Balance

Preset white balance is used when shooting under mixed lighting or to compensate for light sources with a strong color cast (for example, to make pictures taken under a lamp with a red shade look as though they had been taken under white light). When PRE **White bal. preset** is selected from the white balance menu, the camera will zoom in and the menu shown above at right will be displayed in the monitor.



White balance measuring window

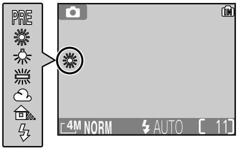
Option	Description
Cancel	Recalls the most recent value for preset white balance from the memory and sets white balance to this value.
Measure	To measure a new value for white balance, place a neutral gray object, such as a piece of cardboard, under the lighting that will be used in the final picture. Frame this object so that it fills the square in the center of the menu shown above. Highlight **Measure** and press ⏎ to measure a new value for white balance (shutter will be released and camera will return to original zoom position, but no picture will be recorded).

Preset White Balance

- The camera can not measure a value for preset white balance when the flash fires. Regardless of the flash mode selected, the flash will not fire when selecting **Measure**.
- When **Auto bracketing** is set to WB **WB bracketing**, preset white balance can not be used.

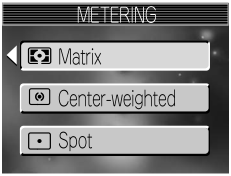
White Balance Indicator

Unless the setting is A-WB **Auto**, white balance is shown by an icon in the monitor.



Metering

Press **MENU** button in 📷 (auto shooting) mode to select **Metering** (📖74), and then press ▶.



The metering menu offers a choice of three metering methods for determining how the camera sets exposure.
Select from the following three options and press ⊛.

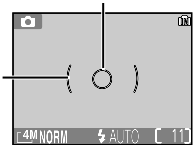
Option	Description
▣ **Matrix** (default setting)	Compares measurements from multi areas of frame with library of typical compositions to produce optimal exposure for entire image. Best choice in most situations.
⊙ **Center-weighted**	Use for portraits; adjusts exposure according to lighting at the center of the frame, but still preserves background details. Can be used with AF/AE lock (📖23) to meter off-center subjects.
⊡ **Spot**	Camera measures light in area shown by circle in center of monitor. Ensures that subject in metering target will be correctly exposed even when background is much brighter or darker. Can be used with AF/AE lock (📖23) to meter off-center subjects.

Notes on Metering

When the digital zoom is in effect, the camera automatically switches to the setting just like ⊙ **Center-weighted**. The metering target does not appear.

Metering

When ⊙ **Center-weighted** or ⊡ **Spot** is selected, the metering target is displayed in the center of the monitor.

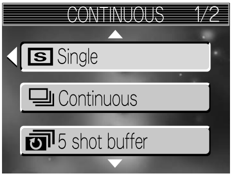


Spot metering target

Center-weighted metering target

Continuous

Press **MENU** button in 📷 (auto shooting) mode to select **Continuous** (74), and then press ▶.



According to the shooting condition, S **Single** or three continuous options (**Continuous**, **5 shot buffer** or **Multi-shot 16**) can be selected.

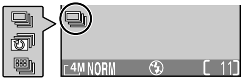
Option	Description
S **Single** (default setting)	Camera takes one picture each time shutter-release button is pressed.
Continuous	While shutter-release button is pressed and held, pictures can be recorded at rate of up to about 1.3 frames per second. Camera takes 11 pictures when **Image quality** is **NORMAL** and **Image size** is **4M** (2272 × 1704). When the (▭) battery level indicator is displayed in the monitor, consecutive shooting speed will be slow.
5 shot buffer	While shutter-release button is pressed and held, pictures can be recorded at rate of up to about 1.3 frames per second. When the shutter button is released, continuous shooting will stop. Only the last five images taken during each continuous shooting burst will be recorded to the memory or memory card. When the (▭) battery level indicator is displayed in the monitor, consecutive shooting speed will be slow.
Multi-shot 16	Each time shutter-release button is pressed down, camera takes sixteen consecutive shots at rate of about 3.5 frames per second. Camera arranges pictures in four rows (one shot: 568 × 426) to form a single picture (**4M**: 2272 × 1704).

Restrictions on Camera Settings

- Autofocus, exposure, and white balance for all photos are determined by the first picture in each series.
- The flash mode is set to ⊘ automatically. **Continuous** can not be used simultaneously with **BSS** (84) or **Auto bracketing** (88). The camera takes pictures with the latest setting among those options.
- **Noise reduction** (95) has no effect even if this option is set to **ON**.
- When shooting pictures using the self-timer, **Continuous** is switched to S **Single**. ⧉ **Continuous**, ⧉ **5 shot buffer**, and ⧉ **Multi-shot 16** can not be used. The settings will return to the original after an image has been taken using the self-timer.
- While shooting in ⧉ **Multi-shot 16**, **Sensitivity** (87) is set to **Auto**.

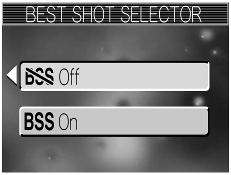
Continuous

Unless the setting is S **Single**, the current **Continuous** setting is indicated by an icon in the monitor.



Best Shot Selector

Press **MENU** button in 📷 (auto shooting) mode to select **BSS** (74), and then press ▶.



When the "Best Shot Selector" (BSS) is on, the camera takes a maximum of ten pictures as long as the shutter-release button is held down. These images are then compared and the sharpest picture (the picture with highest level of detail) is saved to the memory or memory card. BSS is recommended for situations in which inadvertent camera movement can produce blurred pictures, for example when:

- the camera is zoomed in
- the camera is in macro close-up mode
- lighting is poor and the flash can not be used

Select BSS **On** or BSS **Off** and press ⏎.

Option	Description
BSS Off (default setting)	BSS off; camera functions normally.
BSS On	BSS on. Flash mode set to ⚡ automatically and focus, exposure, and white balance for all photos are determined by the first picture in each series.

Notes on BSS

- BSS may not produce the desired results with a moving subject or if you change the composition while the shutter-release button is pressed all the way down.
- When shooting pictures using self-timer, **BSS** is switched to **Off**. **BSS** will return to **On** after an image has been taken using the self-timer.
- When **BSS** is **On**, **Noise reduction** (95) is not available even if this option is set to **On**.

Continuous, Auto Bracketing, and BSS

BSS can not be used simultaneously with **Continuous** (82) or **Auto bracketing** (88). The camera takes pictures with the latest setting among those options.

BSS

When **BSS** is set to **On**, a **BSS** icon appears in the monitor.

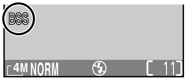


Image Adjustment

Press **MENU** button in 📷 (auto shooting) mode to select **Image adjustment** (74), and then press ▶.

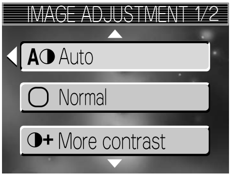


Image adjustment is used to adjust contrast automatically for optimal results before recording pictures to the memory or the memory card.

Select from the following four options and press ◎.

Option	Description
A◑ Auto (default setting)	Camera automatically adjusts contrast according to shooting conditions.
▢ **Normal**	Camera performs same standard contrast adjustment on all pictures. Suitable for a wide variety of scenes, from dark to bright.
◑+ **More contrast**	Picture processed to emphasize difference between light and dark areas, enhancing contrast. Useful when shooting under overcast skies or shooting low contrast subjects such as landscapes.
◑– **Less contrast**	Picture processed to decrease difference between light and dark areas, reducing contrast. Recommended when light is very bright, creating strong shadows on subject.

Image Adjustment

Unless the setting is **A◑ Auto**, the current image-adjustment setting is indicated by an icon in the monitor.

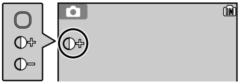
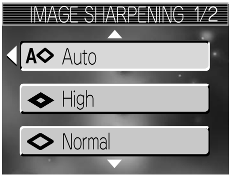


Image Sharpening

Press **MENU** button in 📷 (auto shooting) mode to select **Image sharpening** (74), and then press ▶.



The camera automatically processes pictures to emphasize the borders between light and dark areas of the picture, making edges seem sharper.

Select from the following five options and press ⊛.

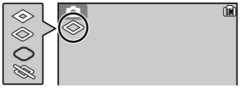
Option	Description
A◇ Auto (default setting)	Camera sharpens edges for optimal results; amount of sharpening varies from shot to shot.
◆ High	Pictures processed to increase sharpness, making edges more distinct.
◇ Normal	Camera performs same standard level of sharpening on all images.
○ Low	Sharpening reduced below normal level.
Off	No sharpening performed. Suitable for pictures that will later be retouched on a computer.

Image Sharpening Effects

Can not be previewed in the monitor. You can view the results in the playback mode.

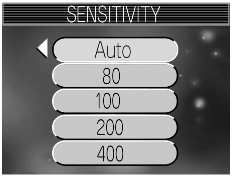
Image Sharpening

Unless the setting is **A◇ Auto**, the image-sharpening icon appears in the monitor.



Sensitivity

Press **MENU** button in 📷 (auto shooting) mode to select **Sensitivity** (☞74), and then press ▶.



Sensitivity is a measure of how sensitive the camera reacts to light. With **Auto** (default setting), ISO sensitivity automatically increases at low brightness. Setting ISO sensitivity at a high level is effective in preventing blur when Speedlight is disabled in dark settings or making the subject appear brighter. However, the image may contain "noise" or become "grainy."

Select from the following five levels and press ⊛.

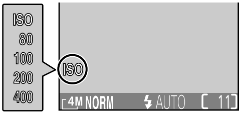
Option	Description
Auto (default setting)	Approximately equivalent to ISO 80 under normal conditions; when lighting is poor, however, camera automatically compensates by raising sensitivity to maximum of ISO 200 equivalent.
80	Approximately equivalent to ISO 80.
100	Approximately equivalent to ISO 100.
200	Approximately equivalent to ISO 200.
400	Approximately equivalent to ISO 400. Intended for use with natural lighting; not recommended when using flash.

Noise Reduction

When raising sensitivity, "noise" in the form of randomly-spaced, brightly colored pixels may appear in pictures. In this case, noise in pictures taken at slow shutter speeds will be reduced automatically when **Noise reduction** (☞95) is **On**.

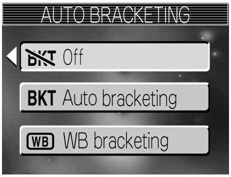
Auto

Unless the setting is **Auto**, a selected ISO value is displayed in the monitor whenever sensitivity is raised. An **ISO** icon will appear at Auto setting when the camera has automatically changed sensitivity.



Auto Bracketing

Press **MENU** button in 📷 (auto shooting) mode to select **Auto bracketing** (📖74), and then press ▶.



In some situations, you may find it difficult to select appropriate exposure compensation and white balance settings, and yet not have time to check the results and adjust settings after each shot. Auto bracketing can be used to vary these settings automatically over a series of pictures, "bracketing" a selected exposure compensation or white balance setting.

Select from the following three options and press ⏎.

Option	Description
BKT **Off** (default setting)	Restores normal exposure and white balance.
BKT **Auto bracketing**	Each time the shutter-release button is fully pressed, the camera takes three shots, one shot with the current exposure, and two shots varying the exposure by values of +0.5 and -0.5 compensation.
WB **WB bracketing**	The camera takes three shots each time shutter-release button is fully pressed, bracketing current white balance setting to produce one picture with normal white balance, one picture with bluish cast, and one picture with reddish cast. Recording time roughly triples.

When Selecting "Auto bracketing"

- The Flash mode is set to ⊘.
- **Noise reduction** has no effect even if this option is set to **On**.

Restrictions on Auto Bracketing

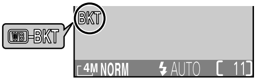
- **Auto bracketing** can not be used simultaneously with **Continuous**, **5 shot buffer**, **Multi-shot 16**, or **BSS**. The camera takes pictures with the latest setting among those options.
- While **White balance** (79) is set to **White bal. preset**, **WB bracketing** option in **Auto bracketing** can not be used for shooting.
- If the space in the memory or on the memory card is capable of storing only a few images, only that number of images will be stored.

Exposure Compensation

When **Exposure compensation** (47) and **Auto bracketing** (88) are set simultaneously, exposure will be compensated at the sum of both compensation values.

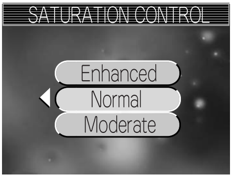
Auto Bracketing

When **Auto bracketing** is in effect, a BKT (bracketing) icon is displayed in the monitor.
When **WB bracketing** is in effect, WB-BKT icons appear in the monitor.



Saturation Control

Press **MENU** button in 📷 (auto shooting) mode to select **Saturation control** (👁74), and then press ▶.



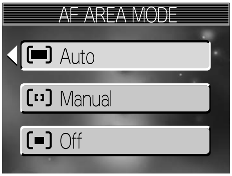
Saturation control is used to heighten or reduce the vividness of colors.

Select from the following three options and press ⊙.

Option	Description
Enhanced	Use for vivid, photo-print effect when taking pictures that will be printed "as is," without further modification.
Normal (default setting)	Best choice in most situations.
Moderate	Use when taking pictures that will later be retouched on a computer.

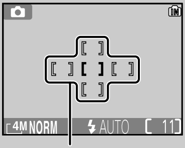
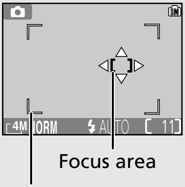
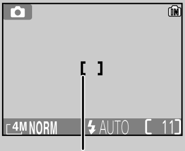
AF Area Mode

Press **MENU** button in 📷 (auto shooting) mode to select **AF area mode** (📖74), and then press ▶.



AF area mode determines how the focus area is selected.

Select from the following three options and press ⊙.

Option	Description
[▬] **Auto** (default setting)	Camera automatically selects focus area containing subject closest to camera. Selected focus area is displayed in green (focused) or red (not focused) when shutter-release button is pressed halfway. This setting is useful when your subject is moving or you have little time to check focus.  Focus area
[::] **Manual**	User selects an area from 99 focus areas manually using ▲, ▼, ◀ or ▶ of the multi selector. This option can be used instead of AF/AE lock (📖23) to focus on a relatively motionless subject that is not at the center of the frame. For more information see "Using [::] Manual Option" (📖93).  Focus area Selectable area
[▪] **Off**	Center focus area is used. This option can be used in combination with AF/AE lock (📖23) to focus on off-center subjects.  Focus area

Focus Area Display

- When the subject is in focus, focus area will be displayed in green.
- When the subject is out of focus, focus area will blink in red.
- When **AF area mode** is **Auto**, focus area will be displayed when the shutter-release button is pressed halfway.

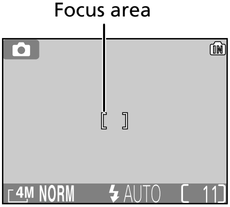
Notes on Focus Area Selection

- In assist mode (28) or scene mode (34), the camera automatically selects optimal focus area for the selected mode.
- In movie mode, camera automatically focuses on the subject using the center focus area. Focus area mode can not be used.
- While **Monitor settings** (115) is **Monitor off** or digital zoom (19) is in effect, the center focus area is used. **AF area mode** can not be used.

Using [▫] Manual Option

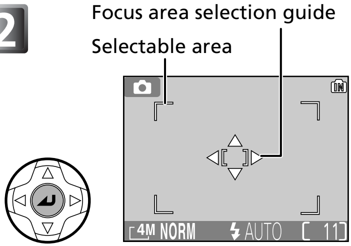
Focus area can be specified from the selectable area in the screen.

1


Focus area
4M NORM
AUTO
11

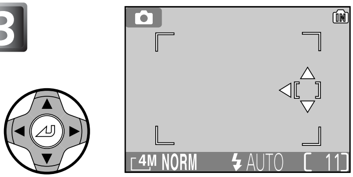
Select **Manual** for **AF area mode**. Currently selected focus area and selectable area are displayed.

2


Focus area selection guide
Selectable area
4M NORM
AUTO
11

Focus area selection guide and selectable area are displayed.

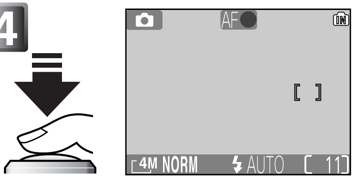
3


4M NORM
AUTO
11

Move focus area so that your subject is positioned in it in your composition.

- You can move focus area to the directions displayed.

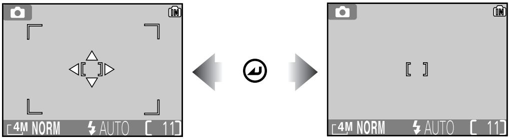
4


AF
4M NORM
AUTO
11

Press shutter-release button halfway. When subject is in focus, focus area is displayed in green. Press shutter-release button the rest of the way down to shoot.

Notes on Shooting in [▫] Manual

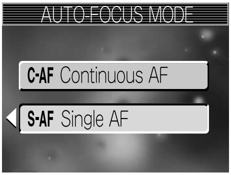
Flash mode (☞42), exposure compensation (☞47), macro close-up mode (☞46), and self-timer mode (☞44) can not be set while the focus area selection guide and selectable area are displayed. Press ⏎ to hide the focus area selection guide before adjusting these settings. To change focus area, press ⏎ again after making setting for them.


4M NORM
AUTO
11
4M NORM
AUTO
11

When the guide and selectable area are displayed

Auto-focus Mode

Press **MENU** button in 📷 (auto shooting) mode to select **Auto-focus mode** (74), and then press ▶.



Auto-focus mode determines how the camera focuses when the monitor is on (**Single AF** is used when the monitor is off regardless of the setting selected for **Auto-focus mode**). **Auto-focus mode** for recording movies is also selected here.

Select from the following two options and press ⊛.

Option	Description
C-AF **Continuous AF**	Camera adjusts focus continuously until shutter-release button is pressed halfway, minimizing time needed to focus before picture is taken. Suitable for shooting rapidly-moving subjects. Note that pictures can be taken even when camera is not in focus; check green (AF) lamp, focus area, or focus indicator before shooting.
S-AF **Single AF** (default setting)	Camera focuses only when shutter-release button is pressed halfway. Note that pictures can be taken even when camera is not in focus; check green (AF) lamp, focus area, or focus indicator before shooting.

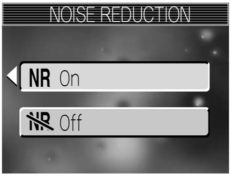
Auto-focus Mode while Recording Movies

Autofocus while recording movies functions as follows:

- **Continuous AF**: Camera adjusts focus continuously. To prevent the sound of the camera focusing from interfering with recording, select a focus mode of S-AF **Single AF**.
- **Single AF**: Movies are recorded with AF/AE locked when shutter-release button is pressed halfway.

Noise Reduction

Press **MENU** button in 📷 (auto shooting) mode to select **Noise reduction** (📖74), and then press ▶.



At slower shutter speeds, "noise" in the form of randomly-spaced, brightly-colored pixels may appear in pictures, particularly in shadows. When you take pictures in dark places, noise reduction can be used to reduce noise at slow shutter speeds.

Select NR **On** or NR **Off** and press ⏎.

Option	Description
NR **On**	Noise reduction takes effect at slow shutter speeds which cause "noise." Time required to save pictures in the memory or on the memory card more than usual.
NR **Off** (default setting)	Noise reduction off; camera functions normally.

Restrictions on Noise Reduction

When shooting pictures using the following options, Noise reduction has no effect:

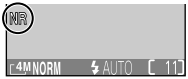
- **BSS** (📖84) is **On**.
- **Auto bracketing** is BKT **Auto bracketing** or WB **WB bracketing** (📖88).
- **Continuous** setting is other than S **Single** (📖82).

Sensitivity (ISO Equivalency)

When raising sensitivity (📖87), "noise" may appear in a picture.
In this case, noise in pictures taken at slow shutter speeds will be reduced automatically when **Noise reduction** is **On**.

Noise Reduction

When **Noise reduction** is **On**, an **NR** (noise reduction) icon appears in the monitor.

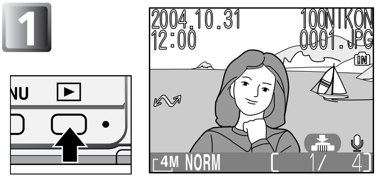


Using the Playback Menu

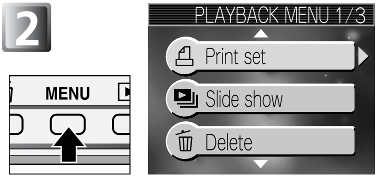
The playback menu contains the following options:

Option	Description	
Print set	Select pictures for printing on a DPOF-compatible device; specify number of copies and information to be included on prints.	65 - 67
Slide show	View pictures in an automatic slide show.	97 - 98
Delete	Delete all or selected pictures.	99 - 100
Protect	Protect selected pictures from accidental deletion.	101
Auto transfer	Mark all or selected pictures for transfer to a computer; turn auto transfer marking on or off.	102 - 104
Small pic.	Create small copies of current picture.	105
Copy	Copy pictures from the memory to the memory card, or vice versa.	106

To Display the Playback Menu:


1
NU
2004.10.31
12:00
100NIKON
0001.JPG
IN
4M NORM
1/ 4

Display playback mode.


2
MENU
PLAYBACK MENU 1/3
Print set
Slide show
Delete

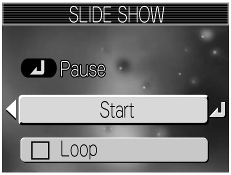
Display playback menu.
Press ▲ or ▼ to highlight menu item, and press ▶.

Exit the Playback Menu

To exit the playback menu and return to the playback mode, press the **MENU** button again.

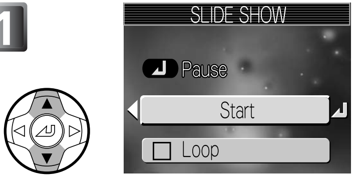
Slide Show

Press **MENU** button in playback mode to select **Slide show** (☞96), and then press ▶.



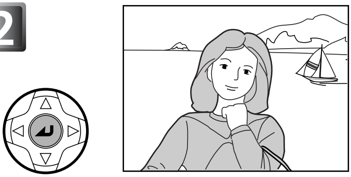
This option is used to play pictures back in an automated "slide show" with about three seconds between each picture.

1



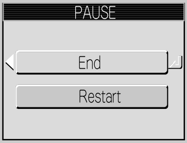
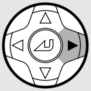
Highlight **Start**.

2



Begin slide show.

The following operations can be performed during the show:

To	Press	Description
Pause	⏎	Pause slide show and menu will be displayed. Highlight **Restart** and press ⏎ to resume show. Highlight **End** and press ⏎ to end show. 
Skip to next frame		Press ▶ to skip to next slide. Hold ▶ down to fast forward through show.
Return to previous frame		Press ◀ to return to previous slide. Hold ◀ down to rewind through show.
End slide show	**MENU**	End slide show and return to playback mode.

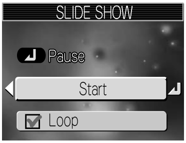
Images in the Memory

The pictures in the memory and on the memory card can not be displayed simultaneously. To display pictures in the memory, select either of the following:

- Remove the memory card from the camera (11), and display pictures.
- Copy pictures stored in the memory to a memory card (106), and display the pictures.

“Loop”

If **Loop** is selected in the starting screen, the slide show will repeat automatically. To select or deselect the loop option, highlight **Loop** and press ↵. A check mark next to **Loop** indicates that the loop option is selected.

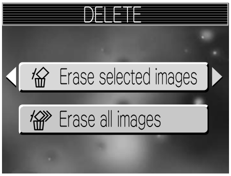


Notes on the Slide Show

- If no operations are performed for 30 minutes after the slide show is started, the camera will turn off automatically even if you have set **Loop** in **slide show**.
- Movies (52) are displayed as still images showing the movie’s first frame.

Delete

Press **MENU** button in playback mode to select **Delete** (☞96), and then press ▶.


DELETE
Erase selected images
Erase all images

This option is used to delete selected pictures or all pictures stored in the memory or on the memory card.

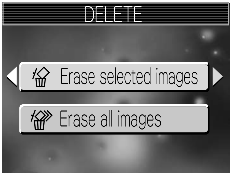
- When the memory card is not inserted in the camera, pictures stored in the memory are deleted.
- When the memory card is inserted in the camera, pictures stored on the memory card are deleted.

The delete menu contains the following options:

Option	Description
Erase selected images	Delete selected pictures.
Erase all images	Delete all pictures stored in the memory or on the memory card.

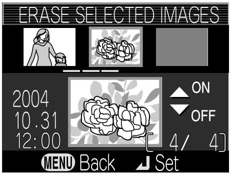
Deleting Selected Pictures (Erase selected images)

1


DELETE
Erase selected images
Erase all images

Highlight **Erase selected images** and press ▶.

2


ERASE SELECTED IMAGES
2004
10.31
12:00
ON
OFF
4/ 4
MENU Back
Set

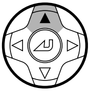
Scroll through pictures.

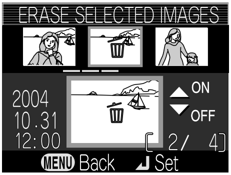
- Current picture shown at bottom of display.
- To cancel the selection, press **MENU** button.

Notes on Voice Memo

Voice memo can be deleted with **Delete** in the playback menu. To delete only the voice memo recorded to the picture, press 🗑 in the full-screen playback mode, thumbnail playback mode, or playback zoom mode (☞53).

3

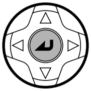


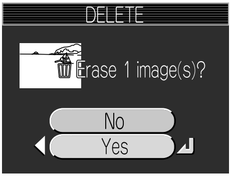

ERASE SELECTED IMAGES
2004
10.31
12:00
ON
OFF
2/ 4
MENU Back
Set

Use ▲ (ON) to select picture. 🗑 icon is marked on the selected picture.

- Repeat steps 2 - 3 to select additional pictures.
- To deselect picture, select and press ▼ (OFF). 🗑 icon will disappear.

4




DELETE
Erase 1 image(s)?
No
Yes

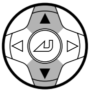
Confirmation dialog displayed.

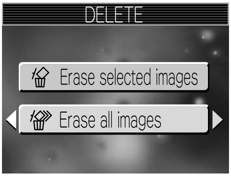
- Select **Yes** and press ↵ to delete selected pictures.
- Select **No** and press ↵ to exit without deleting pictures.

Deleting All Pictures (Erase all images)

Delete all pictures stored in the memory or on the memory card.

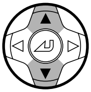
1

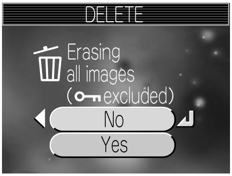



DELETE
Erase selected images
Erase all images

Highlight **Erase all images** and press ▶.

2




DELETE
Erasing
all images
(🔑 excluded)
No
Yes

Confirmation dialog displayed.

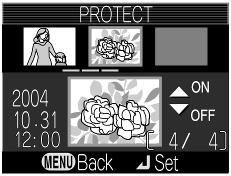
- Select **Yes** and press ↵ to delete all pictures.
- Select **No** and press ↵ to exit without deleting pictures.

Notes on Deletion

- ***Once deleted, pictures can not be recovered.*** If desired, transfer pictures to a computer before deletion.
- Pictures marked with a 🔑 icon are protected and can not be deleted (101).

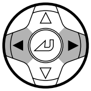
🔑 Protect

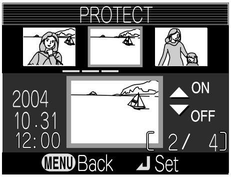
Press **MENU** button in playback mode to select **Protect** (96), and then press ▶.


PROTECT
2004
10.31
12:00
ON
OFF
4/ 4
MENU Back
Set

This option is used to protect pictures from accidental deletion. Protected files can not be deleted by pressing the 🗑 button or using the options in the Delete menu. Note, however, that protected pictures will be deleted when the memory or memory card is formatted.

1

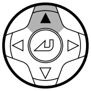


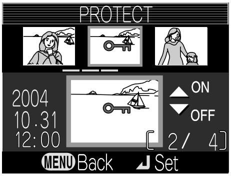

PROTECT
2004
10.31
12:00
ON
OFF
2/ 4
MENU Back
Set

Scroll through pictures.

- Current picture shown at bottom of display.
- To cancel **Protect** setting, press **MENU** button.

2

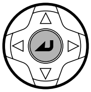


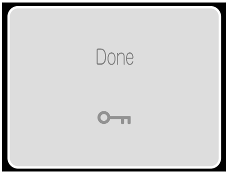

PROTECT
2004
10.31
12:00
ON
OFF
2/ 4
MENU Back
Set

Use ▲ (ON) to select picture. 🔑 icon is marked on the selected picture.

- Repeat steps 1 - 2 to select additional pictures.
- To deselect picture, select and press ▼ (OFF). 🔑 icon will disappear.

3





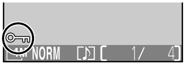
Complete operation.

Notes on Protecting Pictures

Protected pictures can not be deleted using the 🗑 button or the **Delete** menu. However, all pictures, including protected files, will be deleted when the memory or the memory card is formatted.

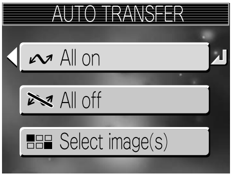
The Protect Icon

During the playback mode, a 🔑 icon appears on all protected pictures.



Auto Transfer

Press **MENU** button in playback mode to select **Auto transfer** (96), and then press ▶.



This option is used to mark pictures for transfer to a computer and to turn automatic transfer marking on and off.

Select from the following three options and press ⊙.

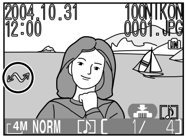
Option	Description
All on (default setting)	All pictures in the memory or on the memory card are marked for transfer. Pictures taken while this option is in effect will be marked for transfer.
All off	Remove transfer marking from all pictures in the memory or on the memory card. Pictures taken while this option is in effect will not be marked for transfer.
Select image(s)	Mark selected pictures for transfer.

Notes on Auto Transfer

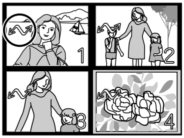
- No more than 999 pictures can be marked for transfer. If the memory or the memory card contains more than 999 pictures, transfer all pictures using provided software. See the *provided software Reference Manual* (on CD) for details.
- The COOLPIX4200 can not be used to transfer pictures selected for transfer with another model of Nikon digital camera. Use COOLPIX4200 to reselect the pictures.

The ⤳ Icon

Pictures that have been selected for transfer are identified by a ⤳ icon.


2004.10.31
12:00
100NIKON
0001.JPG
IN
4M NORM
1/ 4

Full-screen playback

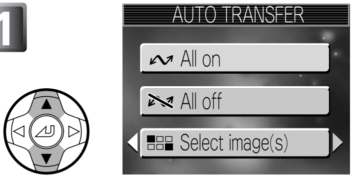


Thumbnail playback

When you connect the camera to a computer via the UC-E6 USB cable (provided with the camera) and press ⏎ (Transfer ⤳) button to transfer pictures, only pictures marked with a ⤳ icon will be transferred.

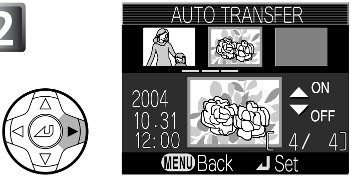
▦ Marking Selected Pictures for Transfer (Selected image)

1


AUTO TRANSFER
All on
All off
Select image(s)

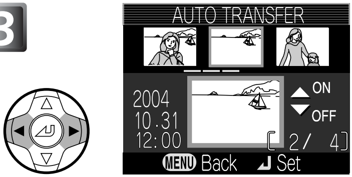
Highlight **Select image(s)**.

2


AUTO TRANSFER
2004
10.31
12:00
ON
OFF
[4/ 4]
MENU Back
Set

Pictures in memory or on memory card displayed as thumbnail images.

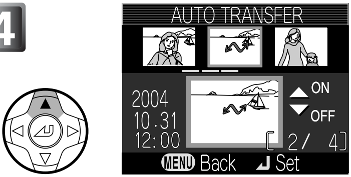
3


AUTO TRANSFER
2004
10.31
12:00
ON
OFF
[2/ 4]
MENU Back
Set

Scroll through pictures to select pictures to be transferred.

- Current picture shown at bottom of the display.
- To cancel the selection, press **MENU** button.

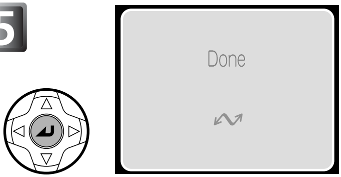
4


AUTO TRANSFER
2004
10.31
12:00
ON
OFF
[2/ 4]
MENU Back
Set

Use ▲ (ON) to select picture. A ∿ icon is marked on the selected picture.

- Repeat steps 3 - 4 to select additional pictures.
- To deselect picture, select and press ▼ (OFF). The ∿ icon will disappear.

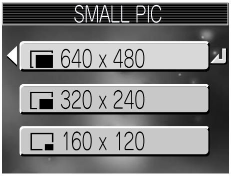
5



Complete operation.

Small Pic.

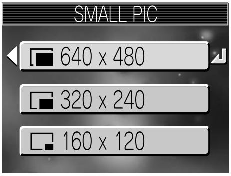
Press **MENU** button in playback mode to select **Small pic.** (96), and then press ▶.



To create a small copy of a picture, select **Small pic.** after displaying the image in full-screen playback or selecting it in the thumbnail display. The following resize options are available:

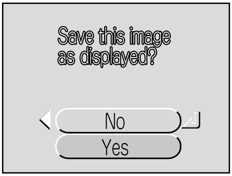
Size (pixels)	Description
640×480	Copy can be displayed full-screen on television or 13″ monitor with no drop in quality.
320×240	Suited to display on web pages. Small file size reduces time needed to display picture in web browser.
160×120	Copy can be sent and received quickly as e-mail attachment. Where application supports display of JPEG images, picture can be viewed in message window.

1



Select a picture in full-screen playback mode (53), and display the playback menu.
Highlight the picture size, and press ↵.
Confirmation dialog displayed.

2



Save this image as displayed?

Highlight **Yes**, and press ↵ to copy the picture.

- Select **No** and press ↵ to exit without creating copy.

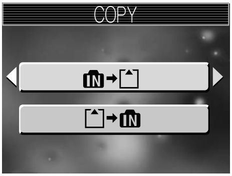
- Copies are stored on the memory as BASIC-quality JPEG files (compression ratio 1:16).
- Copies are stored in separate files in the memory or on the memory card with names of the form "SSCN*nnnn*.JPG," where "*nnnn*" is a four-digit number assigned automatically by the camera.
- In thumbnail playback, small pictures are indicated by a gray border (except for 640×480).

Notes on Small Picture

- Small pictures can not be created from cropped copies (56), or copies created using small picture.
- Small pictures created in sizes of 320 × 240 pixels or smaller can not be zoomed.
- Nikon does not guarantee any operation of the small picture function for pictures taken with other than COOLPIX4200.

Copy

Press **MENU** button in playback mode to select **Copy** (96), and then press ▶.

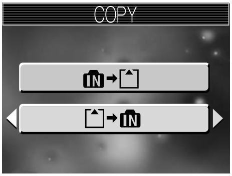


Copy stored pictures from the internal memory to the memory card, or vice versa.

Option	Description
IN→□	Copy stored pictures from the memory to the memory card. You can either choose pictures to copy, or copy all pictures in the memory to the memory card.
□→IN	Copy stored pictures from the memory card to the memory. You can either choose pictures to copy, or copy all pictures on the memory card to the memory.

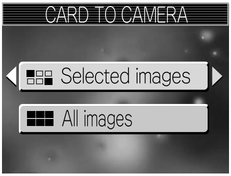
Marking Selected Pictures for Copy (Selected images)

1



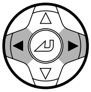
Highlight direction as shown above, and press ▶.

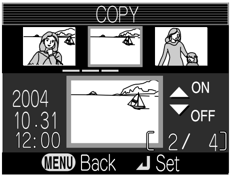
2



Highlight **Selected images**, and press ▶.

3

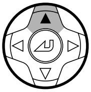


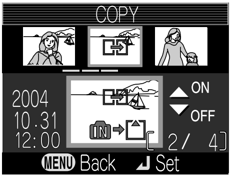

COPY
2004
10.31
12:00
ON
OFF
[2/ 4]
MENU Back
Set

Scroll through pictures.

- Current picture shown at bottom of display.
- To cancel the selection, press **MENU** button.

4

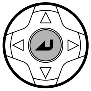


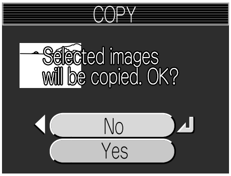

COPY
2004
10.31
12:00
IN
ON
OFF
[2/ 4]
MENU Back
Set

Use ▲ (ON) to select picture. ⧉ icon is marked on the selected picture.

- Repeat steps 3 - 4 to select additional pictures.
- To deselect picture, select and press ▼ (OFF). The ⧉ icon will disappear.

5



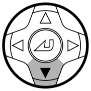


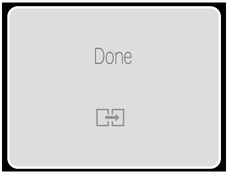
COPY

Selected images will be copied. OK?

The confirmation dialog will be displayed.

6





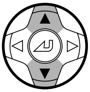
Done

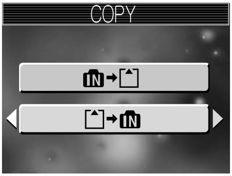
Highlight **Yes**, and press ↵ to copy the pictures.

- Select **No** to exit without copying pictures.

Marking All Pictures for Copy (All images)

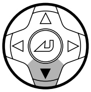
1

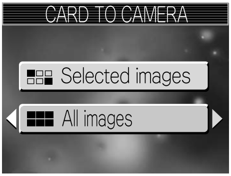




Highlight direction as shown on the table (106), and press ▶.

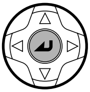
2

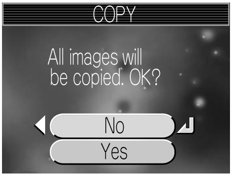




Highlight **All images**.

3

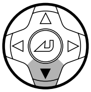


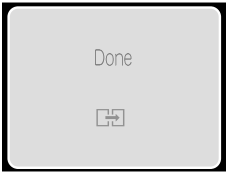


All images will be copied. OK?

The confirmation dialog will be displayed.

4





Done

Highlight **Yes**, and press ⏎ to copy all pictures in the memory or on the memory card.

- Select **No** to exit without copying pictures.

Image Copy

- When **Selected images** is selected, selected pictures in the memory or on the memory card are copied to an existing folder created in the destination memory. The pictures are stored with file names of the form "DSCN*nnnn*," where "*nnnn*" is a four-digit number assigned automatically by the camera.
- When **All images** is selected, all folders in the memory or on the memory card are copied. The folder name has a new folder number assigned automatically by the camera (one is added to the maximum folder number in the destination memory). If a new folder is not created, an error message will be displayed and the copying is not executed.
- If the space in the destination memory is not enough for the copy, copying is canceled and an error message is displayed.
- The available file formats for copy are JPEG, MOV and WAV. You can not copy an image file in other than these file formats.
- Copying of pictures taken with another make of camera or retouched on a computer is not guaranteed by Nikon.

Print set (Digital Print Order Format)

Even if a print order has been created, the print order data will not be copied with the picture.

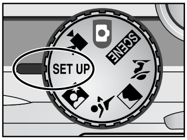
Using the Setup Menu

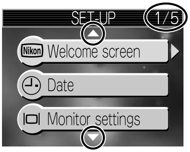
The setup menu contains the following options:

Option	Description	🔍
Welcome screen	Choose the welcome screen to be displayed when the camera is turned on.	110
Date	Set the camera clock.	112
Monitor settings	Set display of the monitor.	115
Date imprint	Imprint pictures with the date and/or time of recording.	116
Brightness	Adjust monitor brightness.	117
Sound settings	Set button sound and adjust volume of shutter and start-up sounds.	118
Auto off	Choose how long the monitor will remain on before turning off automatically to save power.	119
Format memory/ card	Format the memory or the memory card for use in the camera.	119
Language	Choose a language for camera menus and messages.	120
USB	Choose PTP or Mass storage according to the connection with your camera and a computer or a direct printing compatible printer.	60 68
Video mode	Select the video mode from NTSC and PAL.	121
Reset all	Restore camera settings to their default settings.	121
Firmware version	Display the current camera firmware version.	122

To Display the Setup Menu

The setup menu can be displayed by rotating the mode dial to SET UP.



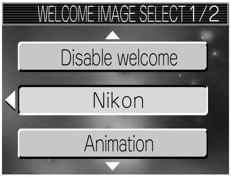


A page number (e.g., 1/2, 1/5), △ and ▽ indicate that a menu or option consists of multiple pages. Press ▲ and ▼ to display the previous or next page.

To exit menu dialog, rotate the mode dial to other than SET UP.

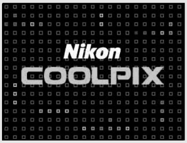
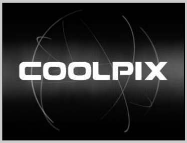
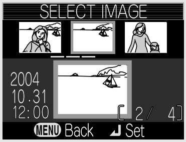
Welcome Screen

Rotate the mode dial to SET UP to select **Welcome screen** (📖 109), and then press ▶.


WELCOME IMAGE SELECT 1/2
Disable welcome
Nikon
Animation

This option is used to choose the welcome screen displayed when the camera is turned on.

Select from the following four options and press ↵.

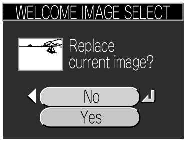
Option	Description
Disable welcome	No welcome screen is displayed when camera is turned on.
Nikon	Image shown at right is displayed when camera is turned on.  Nikon COOLPIX
Animation (default setting)	Short animation is displayed when camera is turned on. 
Select an image	You can choose the welcome screen from pictures stored in the memory or on the memory card. 1 Select image screen is displayed. Highlight a picture using the multi selector. 2 Press ↵. To select a picture stored in the camera memory, remove the memory card.  SELECT IMAGE 2004 10.31 12:00 [2/ 4] MENU Back ↵ Set

Small Pictures and Cropped Copies

Resized copies created with the small picture (☞ 105) and cropping options (☞ 56) can only be selected for the welcome screen if they are 640×480 pixels or larger.

"Select an Image"

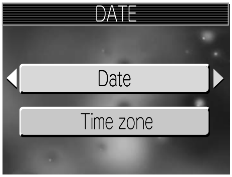
When **Select an image** is selected, the chosen picture will appear at startup even when the memory card containing the image is removed from the camera. If you select **Select an image** after choosing a custom welcome screen, the confirmation dialog shown at right will be displayed. Select **Yes** to choose a new picture for the welcome screen, **No** to exit leaving the welcome screen unchanged.


WELCOME IMAGE SELECT

Replace current image?

◷ Date

Rotate the mode dial to SETUP to select **Date** (109), and then press ▶.


DATE
Date
Time zone

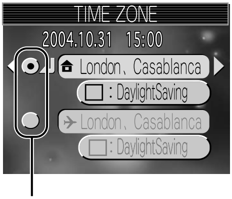
This option is used to set the camera clock and to choose home time zone and new city time zone (travel destination time zone).

Date

Date is used to set the camera clock to the current date and time. See "First Steps: Basic Setup" (14).

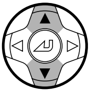
Time Zone

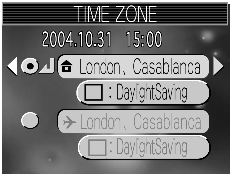
Select the time zone. The normal time zone setting is ⌂ (home time zone). If you select ✈ (new city time zone), the time difference is automatically calculated and the date and time in the selected region are displayed.


TIME ZONE
2004.10.31 15:00
⌂ London, Casablanca
☐ : DaylightSaving
✈ London, Casablanca
☐ : DaylightSaving

Dot marks selected option

1

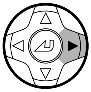


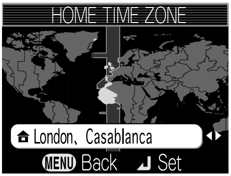

TIME ZONE
2004.10.31 15:00
⌂ London, Casablanca
☐ : DaylightSaving
✈ London, Casablanca
☐ : DaylightSaving

Select home time zone or new city time zone.

- To set the clock to the home time zone, highlight ⌂ and press ↵.
- To set the clock to the new city time zone, highlight ✈ and press ↵.
- To turn daylight saving time on, highlight **DaylightSaving** and press ↵. The ✓ icon is displayed in ☐.

2

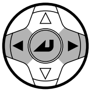


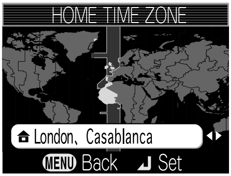


London, Casablanca

Selected time zone is displayed.

3

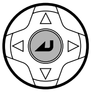


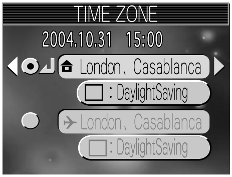


London, Casablanca

Choose time zone, and press ↵.

4





2004.10.31 15:00

London, Casablanca

☐ : DaylightSaving

London, Casablanca

☐ : DaylightSaving

Time zone is set.

Press **MENU** button to return to time zone menu and selected time is displayed.

- When ✓ icon is displayed in ☐ next to **DaylightSaving**, automatically advances time by one hour.
- To return to the setup menu, press ◀.

Time Zones

- The time zone can not be selected if the date and time have not been set.
- Time zone increments of less than one hour are not supported. When traveling to or from destinations at half- or quarter-hour increments from Greenwich Mean Time (GMT), such as Afghanistan, Central Australia, India, Iran, Nepal, or Newfoundland, set the camera clock to local time (👁 14, 112).

The camera supports the following time zones:

GMT +/–	Location
GMT –11	Midway, Samoa
GMT –10	Hawaii, Tahiti
GMT –9	Alaska, Anchorage
GMT –8	PST: Los Angeles, Seattle, Vancouver
GMT –7	MST: Denver, Phoenix, La Paz
GMT –6	CST: Chicago, Houston, MexicoCity
GMT –5	EST: New York, Toronto, Lima
GMT –4	Caracas, Manaus
GMT –3	BuenosAires, SanPaulo
GMT –2	Fernando de Noronha
GMT –1	Azores

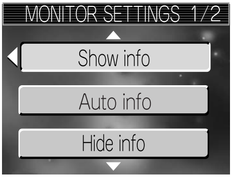
GMT +/–	Location
GMT	London, Casablanca
GMT +1	Madrid, Paris, Berlin
GMT +2	Athens, Helsinki
GMT +3	Moscow, Nairobi
GMT +4	AbuDhabi, Dubai
GMT +5	Islamabad, Karachi
GMT +6	Colombo, Dacca
GMT +7	Bangkok, Jakarta
GMT +8	Beijing, HK, Singapore
GMT +9	Tokyo, Seoul
GMT +10	Sydney, Guam
GMT +11	NewCaledonia
GMT +12	Auckland, Fiji

Time Zone Display

When the new city time zone is selected, a ✈ icon will be displayed in the monitor.

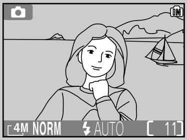
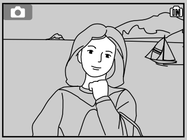
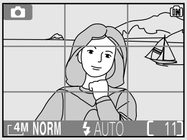
Monitor Settings

Rotate the mode dial to SET UP to select **Monitor settings** (🕮 109), and then press ▶.



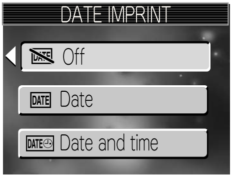
This option is used to set the display's appearance.

Select from the following five options and press ⊛.

Option	Description	Monitor
Show info	Display current settings in monitor when taking or viewing pictures.	
Auto info	Display shooting information in the monitor for five seconds.	
Hide info	Current settings are hidden.	
Framing grid	Display a framing grid in the monitor in the auto shooting mode. Current settings are displayed in monitor (for five seconds in the shooting mode).	
Monitor off	The monitor is turned off in the auto shooting mode. The current settings are displayed in other modes. • When taking pictures, use the viewfinder. **AF area mode** is set to [▪] **Off** and **Auto-focus mode** is S-AF **Single AF**. • When the monitor is turned off, the camera enters energy-saving mode. The camera focuses on the center focus area and focus response speed drops slightly.	

Date Imprint

Rotate the mode dial to SETUP to select **Date imprint** (📖 109), and then press ▶.



DATE IMPRINT

- Off
- Date
- Date and time

The date imprint option is used to imprint the date or the date and time of recording on pictures as they are recorded to the memory or memory card. It can not be used to imprint a date stamp on pictures after recording.

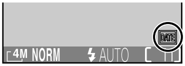
Option	Description
Off (default setting)	Time and date do not appear on pictures.
Date	Date is imprinted at bottom right corner of all pictures taken while this option is in effect.
Date and time	Date and time are imprinted at bottom right corner of all pictures taken while this option is in effect.

Restrictions on Date Imprint

- Imprinted date can not be deleted.
- **Date imprint** can not be selected if the camera clock has not been set (📖 14).
- Date and time will not be imprinted in the movie mode (📖 51) and **Panorama assist** (📖 40).
- Date imprinted at an **Image size** (📖 77) setting of TV **640 × 480** may be difficult to read. We recommend that Image size is PC **1024 × 768** or larger when using the **Date imprint** option.
- The date is recorded in the order selected in **Date** (📖 14) in the setup menu.
- Imprinted data forms a permanent part of the image and will appear whenever the image is printed, regardless of whether the **Date** option is chosen in the **Print set** menu.

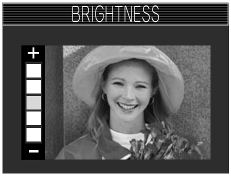
Date Imprint

Unless the setting is **Off**, Date imprint is shown by an icon in the monitor.



☼ Brightness

Rotate the mode dial to SETUP to select **Brightness** (👁 109), and then press ▶.

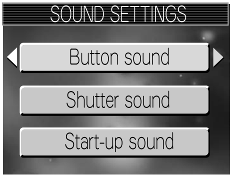


This option is used to adjust the monitor brightness to one of five grades.

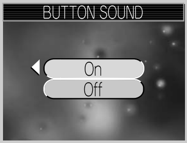
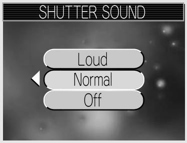
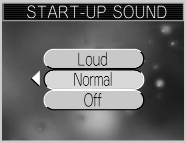
Press ▲ or ▼ of the multi selector to increase or decrease the brightness of the monitor by moving the indicator on the left of the display up or down. Press ⊕ of the multi selector. To return to the setup menu, press ◀ of the multi selector.

🔈 Sound Settings

Rotate the mode dial to SET UP to select **Sound settings** (🕮 109), and then press ▶.

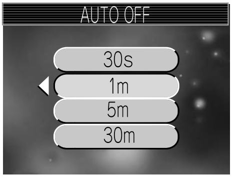

SOUND SETTINGS
Button sound
Shutter sound
Start-up sound

The options in this menu control the sound settings listed below.

Option	Description
Button sound	Control the sound played when buttons are pressed. The button sound is played in the following cases: • Rotating the mode dial to the other mode. • Pressing ▶ to displayed shooting or playback mode. • Pressing ⊙ to select option or menu. • Battery is low. • You can not take pictures because of the memory or a memory card status. • An error occurs.  BUTTON SOUND On Off
Shutter sound	Adjust volume of shutter sound. Press ▲ or ▼ of the multi selector to highlight option, press ⊙ to select. Shutter sound is not produced in movie mode.  SHUTTER SOUND Loud Normal Off
Start-up sound	Adjust volume of sound played when camera is turned on.  START-UP SOUND Loud Normal Off

Auto Off

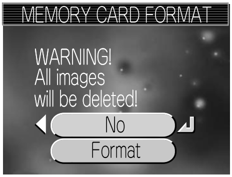
Rotate the mode dial to SET UP to select **Auto off** (109), and then press ▶.



To save battery power, the camera will enter stand-by mode if no operations are performed for a pre-set length of time. Choose from thirty seconds (**30s**), one minute (**1m**, the default setting), five minutes (**5m**), or thirty minutes (**30m**), and press ⏎. For more details of Auto off, see 13.

Format Memory/Card

Rotate the mode dial to SET UP to select **Format memory** or **Format card** (109), and then press ▶.



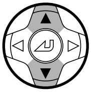
WARNING!
All images
will be deleted!

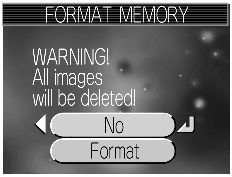
This menu allows the memory or the memory card to be formatted for use in the camera.

- Before formatting the memory, remove the memory card from the camera.
- When the memory card is inserted in the camera, the memory card will be formatted.

To Format the Memory:

1



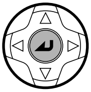


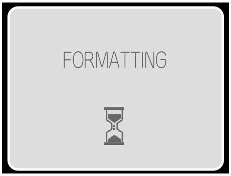
WARNING!
All images
will be deleted!

Highlight **Format**.

- To exit without formatting memory, highlight **No** and press ⏎.

2



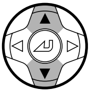


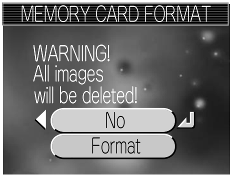
FORMATTING

Begin formatting.
While formatting is in progress, message shown above will be displayed.

To Format the Memory Card:

1



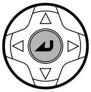


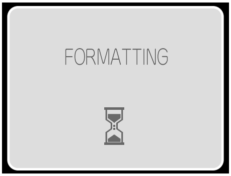
MEMORY CARD FORMAT
WARNING!
All images
will be deleted!
No
Format

Highlight **Format**.

- To exit without formatting card, highlight **No** and press ↵.

2





FORMATTING

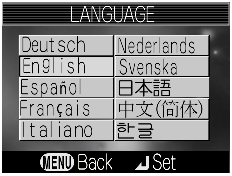
Begin formatting.
While formatting is in progress, message shown above will be displayed.

Caution in Formatting

- Format the memory or the memory card using the camera. If the memory or the memory card is formatted on the computer, some errors may occur when writing or reading data.
- Do not turn the camera off, or remove the battery or memory card, while the “**FORMATTING**” message is displayed.
- Formatting the memory or the memory card permanently deletes all data they contain, including protected pictures and any other data that may be in the memory or on the memory card. Before formatting, be sure to transfer any valued pictures to a computer (☞ 60).
- The memory or memory card performance drops as pictures are recorded and deleted. For best performance, format the memory or memory cards regularly.

Language

Rotate the mode dial to SETUP to select **Language** (☞ 109), and then press ▶.



LANGUAGE
Deutsch
English
Español
Français
Italiano
Nederlands
Svenska
日本語
中文(简体)
한글
MENU Back ↵Set

Choose the language for menus and messages displayed in the monitor from **Deutsch** (German), **English**, **Español** (Spanish), **Français** (French), **Italiano** (Italian), **Nederlands** (Dutch), **Svenska** (Swedish), 日本語 (Japanese), **中文(简体)** (Simplified Chinese), and **한글** (Korean), and then press ↵.

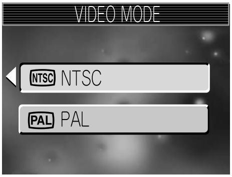
⭠ USB

Rotate the mode dial to SET UP to select **USB** (📖 109), and then press ▶.

Select the USB setting used when viewing pictures on a computer (📖 60) or when connecting the camera to a printer supporting Direct Print (📖 68).

Video Mode

Rotate the mode dial to SET UP to select **Video mode** (📖 109), and then press ▶.

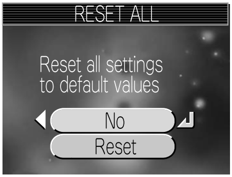


Before connecting your camera to a video device such as a television or VCR (📖 59), choose a video mode that matches the video standard used in the device and press ⏎.

Your Nikon digital camera supports NTSC and PAL standards.

C Reset All

Rotate the mode dial to SET UP to select **Reset all** (📖 109), and then press ▶.



Reset all settings to default values

Select this option to restore the settings listed on the next page to their original state.

Option	Description
No	Exit menu, leaving settings unchanged.
Reset	Restore settings to default settings.

The following settings are affected:

Setting	Default
Portrait assist	Portrait
Landscape assist	Landscape
Sports assist	Sports
Night portrait assist	Night Portrait
SCENE Scene	Party/Indoor
Movie mode	TV movie 640
Speedlight	Auto
Self-timer	Off
Macro close-up	Off
Exposure Compensation	±0
Image quality	NORMAL
Image size	4M
White balance	Auto
Metering	Matrix
Continuous	Single
BSS	Off

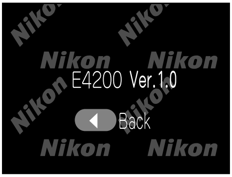
Setting	Default
Image Adjustment	Auto
Image sharpening	Auto
Sensitivity	Auto
Auto Bracketing	Off
Saturation control	Normal
AF area mode	Auto
Manual (AF area mode)	Center
Auto-focus mode	Single AF
Noise reduction	Off
Welcome screen	Animation
Monitor settings	Show info
Date imprint	Off
Brightness	3
Button sound	On
Shutter sound	Normal
Start-up sound	Normal
Auto off	1m

Resetting File Numbering to 0001

To reset file numbering (26) to 0001, select **Reset all** after either deleting all pictures (121) or formatting the memory or memory card (119).

Ver. Firmware Version

This option is used to check a firmware version for your camera. To return to the setup menu, press ◀.



E4200 Ver.1.0

Optional Accessories

The following optional accessories are available for your Nikon digital camera. Contact your local retailer.

Rechargeable battery	Additional EN-EL5 Li-ion batteries are available from your retailer or local Nikon representative.
Battery charger	MH-61 battery charger for EN-EL5 batteries
AC adapter	EH-62A AC adapter kit
Carrying case	CS-CP18 soft case (Not available in U.S.)
Waterproof case	WP-CP2 waterproof case (Not available in some areas)

Approved Memory Cards

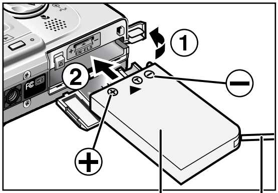
The following cards have been tested and approved for use:

SanDisk	16MB, 32MB, 64MB, 128MB, 256MB
Toshiba	16MB, 32MB, 64MB, 128MB, 256MB
Panasonic	16MB, 32MB, 64MB, 128MB, 256MB*, 512MB*

* Use cards rated for 10MB/s or more.

Connecting the EH-62A AC Adapter Kit

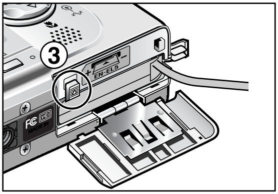
An optional EH-62A AC adapter kit can be used to provide power from a wall plug outlet to the Nikon COOLPIX4200 when the camera is used for an extended period, such as connecting it with a computer or printer.
Before connecting the AC adapter kit, turn the camera off and make sure that the power-on lamp has gone out.



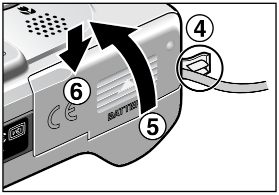
EP-62A Power connector

Power connector cord

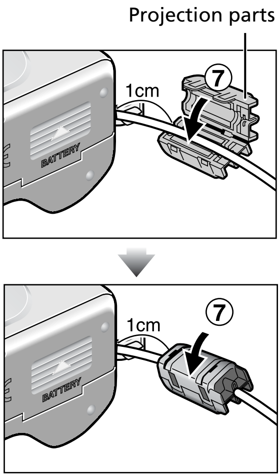
1 **Open the battery-chamber cover and the power connector cover (①), and then insert the EP-62A power connector (②).**
Make sure the EP-62A is oriented correctly and insert it into the battery chamber pushing aside the orange battery latch.



2 **Lock the power connector.**
The battery latch will be pushed out of the way as the EP-62A is inserted; the battery is fully inserted when the latch locks (③).



3 **Close the battery-chamber cover.**
Making sure the EP-62A power connector cord goes through the power connector cover (④), close the cover (⑤) and slide it back into place (⑥).



4 **Attach the ferrite core provided with the camera to the EP-62A power connector cord.**

Position the projection parts of the ferrite core facing away from the camera, and attach the ferrite core about one cm (0.4") away from the camera as shown in the figure (⑦).

For more information on using EH-62A AC adapter kit, see EH-62A AC adapter kit manual.

Disconnecting the AC Adapter Kit

Before disconnecting the AC adapter kit, turn the camera off and remove the wall plug from the power outlet. Open the battery-chamber cover and push upward the battery latch and remove the EP-62A from the camera.

Caring for Your Camera

To ensure continued enjoyment of your Nikon product, observe the following precautions when storing or using the device:

✓ Keep dry

The device will be damaged if immersed in water or subjected to high levels of moisture.

✓ Handle the lens and all moving parts with care

Do not apply force to the lens, monitor, or to the connector, card slot, or battery chamber covers. These parts are especially susceptible to damage.

✓ Do not point the lens at strong light sources for extended periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera.
Intense light may cause deterioration in the CCD image sensor, producing a white blur effect in photographs.

✓ Turn the product off before removing or disconnecting the power source

Do not unplug the product or remove the batteries while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry. To prevent an accidental interruption of power, avoid carrying the product from one place to another while the AC adapter (available separately) is connected.

✓ Do not drop

The product may malfunction if subjected to strong shocks or vibration.

✓ Keep away from strong magnetic fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry.

✓ Avoid sudden changes in temperature

Sudden changes in temperature, such as occur when entering or leaving a heated building on a cold day, can cause condensation inside the device.
To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

Cleaning

Lens

One key to cleaning the lens is to not touch it with your fingers. Remove dust or lint with a *blower* (typically a small device with a rubber bulb attached to one end that you pump to produce a stream of air out the other). To remove fingerprints or other stains that can not be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts in the center of the lens and works out to the edges.

Monitor

Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.

✓ Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury due to broken glass and to prevent the liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Body

Use a blower to remove dust and lint, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a cloth lightly dampened with fresh water, then dry thoroughly.

Do not use alcohol, thinner, or other volatile chemicals.

Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD monitors, and does not indicate a malfunction. Images recorded using the product will not be affected.
- When you frame bright subjects, vertical comet-like streaks that whiten toward either end may appear in the monitor. This phenomenon, known as "smear," does not appear in the final photograph and does not indicate a malfunction. Some smear may appear in movies.
- Images in the monitor may be difficult to see in a bright light.
- The monitor is lit by an LED backlit. Should the monitor begin to dim or flicker, contact your Nikon service representative.

AF-Assist Illuminator

The light-emitting diode (LED) used in the AF-assist illuminator (2) conforms to the following IEC standard:

CLASS 1 LED PRODUCT
IEC60825-1 Edition 1.2^{-2001}

Storage

Turn the camera off when not in use and check that the power-on lamp is off before putting the camera away. To prevent mold or mildew, store the camera in a dry, well-ventilated area. If you will not be using the product for long periods, remove the battery to prevent leakage and store the camera in a plastic bag containing a desiccant. Do not store the camera case (available separately) in a plastic bag, as this may cause the material to deteriorate. Note that desiccant gradually loses its capacity to absorb moisture and should be replaced at regular intervals. Do not store your camera with naphtha or camphor moth balls or in locations that:

- are poorly ventilated or damp
- are next to equipment that produces strong electromagnetic fields, such as televisions or radios
- are exposed to temperatures below –10°C (14°F) or above 50°C (122°F; for example near a space heater or in a closed vehicle on a sunny day)
- are subject to humidities of over 60%

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.

Store the batteries in a cool, dry place.

Batteries

- When turning the camera on, check that the battery is charged. The monitor will display a warning when the battery is low.
- Carry a fully-charged spare EN-EL5 battery as a replacement when taking pictures on important occasions. You may find it difficult to charge the battery or to purchase replacement batteries at short notice.
- On cold days, the capacity of batteries tends to decrease. Be sure that the battery is fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- If the battery terminals are dirty, wipe them off with a clean, dry cloth before use.
- Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

Error Messages

The following table lists the error messages and other warnings that appear in the monitor and how to deal with them.

Display	Problem	Solution	☞
🕒 (blinks)	Clock not set.	Set clock to current date and time.	14
WARNING!! BATTERY EXHAUSTED	Battery exhausted.	Turn camera off and replace battery.	8
[ ] AF● (● flashes red)	Camera can not focus.	Use AF/AE lock to focus on another subject at same distance, then recompose picture.	23
✋	Slow shutter speed. Pictures may be blurred.	Use flash, or steady camera using tripod, by placing camera on level surface, or by holding camera in both hands with elbows against torso.	42, 43, 19
Please wait ⌛	• Camera turned off. • The ▶ button pressed during recording pictures. • The mode dial rotated to another mode during recording.	Message clears from display automatically when recording is complete.	22
WARNING!! PLEASE WAIT FOR THE CAMERA TO FINISH RECORDING ⌛			
MEMORY CARD IS WRITE PROTECTED ⊠	Write-protect switch of the memory card is in "lock" position.	Slide write-protect switch to "write" position.	11
THIS CARD CANNOT BE USED ⊠	Error accessing memory card.	• Use approved card.	123
WARNING!! THIS CARD CANNOT BE READ ▯		• Check that connectors are clean. • Turn the camera off and make sure the memory card is inserted correctly.	10
▯ CARD IS NOT FORMATTED FORMAT NO ▶	Memory card has not been formatted for use in camera.	Press ▲ of multi selector to highlight **FORMAT** and press ⊙ to format card, or turn camera off and replace card.	119, 10

Display	Problem	Solution	☞
OUT OF MEMORY ⊠ or IN	*Camera in the shooting mode*: Insufficient memory to record pictures at current settings.	• Choose lower image quality/ size. • Delete unwanted pictures. • Insert new memory card.	75 - 78 25, 99 10
	Camera connected to computer and the ⊙ *(Transfer* ∿*) button pressed:* Not enough space on memory to record information needed for transfer.	Disconnect camera, delete unwanted pictures, and try again.	99, 60
IMAGE CANNOT BE SAVED IN or ☐ (lit)	Memory card format is different.	Reformat memory card.	119
	Error occurred while saving picture.	———	–
	Camera has run out of file numbers.	Insert new memory card or delete unwanted pictures from the memory or the memory card.	10, 25, 99
	• Camera can not copy movie, or picture created using small picture, or crop. • Invalid picture chosen for creating small picture.	Copies can not be created from movies or from other copies.	–
	The destination is out of memory for copying picture.	• Format destination memory (the memory or memory card). • Insert new memory card or delete unwanted pictures from the memory or memory card.	119 10, 25, 99
	Invalid picture chosen for welcome screen.	Small pictures created in sizes of 320 × 240 pixels or smaller, or cropped copies can not be selected.	111

Display	Problem	Solution	☞
CARD CONTAINS NO IMAGES ⧄	No pictures in the memory or the memory card.	• When this message is displayed although pictures are taken, turn the camera off and turn it on again. If error persists, contact retailer or Nikon representative. • Press ▶ button to return to the shooting mode. • To show pictures in the memory, remove memory card from camera.	12, 13 11
FILE CONTAINS NO IMAGE DATA ⧄	File created by computer or different make of camera.	View file on computer or correct make of camera.	–
ALL IMAGES ARE HIDDEN	No pictures in the memory or on the memory card that can be viewed on E4200.		
THIS IMAGE CANNOT BE DELETED ⧄	Attempt to delete protected picture.	Remove protection before deleting picture.	101
NEW CITY IS IN THE CURRENT TIME ZONE	Travel destination is in same time zone as home location.	No need to specify new time zone if travel destination is in same time zone as home location.	112
LENS ERROR	Error has occurred during lens operation.	Turn camera off and then on again. If error persists, contact retailer or Nikon representative.	–
COMMUNICATIONS ERROR ↝	USB cable disconnected or memory card removed while pictures are being transferred to computer.	If error appears on computer monitor, click **OK** to exit provided software. Turn camera off, reconnect cable or replace memory card, then turn camera on and transfer pictures.	60 - 63
	A computer is executing some form of processing.	If error appears on computer monitor, click **OK** and transfer pictures after the processing has completed.	–
	USB option set incorrectly to transfer pictures using camera's ⊙ (Transfer ↝) button.	Turn camera off and disconnect cable, then choose new USB setting in the camera setup menu and reconnect camera. If error persists, use Transfer button in provided software to transfer pictures.	60 - 63

Display	Problem	Solution	
NO IMAGES ARE MARKED FOR TRANSFER ⊠	No pictures selected for transfer when ⊙ (Transfer ∿) button pressed to transfer pictures to computer.	Disconnect camera and select at least one picture for transfer, then begin transfer again.	63, 102
TRANSFER ERROR ∿	Error occurred when pictures were transferred to computer.	• Check that camera is connected and that battery is fully charged. • Check that optional EH-62A AC adapter is firmly connected to the camera.	62, 12 124
SYSTEM ERROR ⚠	Error has occurred in camera's internal circuitry.	Turn camera off, unplug optional AC adapter (if using), remove and reinsert batteries, and turn camera on. If error persists, contact retailer or Nikon representative.	12, 8 - 9
PRINTER ERROR CHECK PRINTER STATUS ⚠	Printer error occurs on your printer.	Read printer manual and solve the problem.	–

Troubleshooting

If your camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon representative. Refer to the page numbers listed in the right-most column for information on solving the problems listed here.

Electronically-Controlled Cameras

In extremely rare instances, unusual characters may appear in the monitor and the camera may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, remove and replace the battery, and turn the camera on again, or, if you are using an AC adapter kit (optional), disconnect and reconnect the adapter, and turn the camera on again. Note that disconnecting the power source as described above may result in the loss of any data not recorded to the memory or memory card at the time the problem occurred. Data already recorded to the memory or memory card will not be affected.

Problem	Possible cause	☞
Monitor is blank	• Camera is off. • Monitor is off. • Battery is not correctly inserted or battery-chamber cover is not properly latched. • Battery is exhausted. • Optional EH-62A AC adapter kit is not properly connected. • Camera is in standby mode. Press shutter-release button halfway. • USB cable is connected. • Audio/video cable is connected.	12 5 8 12 124 13 62 59
Camera turns off without warning	• Battery is low. • Battery is cold.	12 128
No indicators appear in monitor	• Indicators may be hidden. Change **Monitor settings** in setup menu.	115
Monitor is hard to read	• Ambient lighting is too bright: move to a darker location. • Monitor brightness needs adjustment. • Monitor is dirty: clean monitor.	127 117 127

Problem	Possible cause	
No picture is taken when shutter-release button is pressed	• Camera is in playback mode. • Battery is exhausted. • Red (⚡) lamp blinks: flash is charging. • Message "CARD IS NOT FORMATTED" appears in monitor: memory card is not formatted for use in camera. • Message "MEMORY CARD IS WRITE PROTECTED" appears in monitor: memory card is locked. • Message "OUT OF MEMORY" appears in monitor: insufficient memory to record picture at current **Image quality/size** setting.	17, 24 12 21 11, 119 11 78
Pictures are too dark (underexposed)	• Flash is off. • Flash window is blocked. • Subject is outside range of flash. • Exposure compensation is too low.	42 19 42 47
Pictures are too bright (overexposed)	• Exposure compensation is too high.	47
Pictures are out of focus	• Subject was not in focus area when shutter-release button was pressed halfway. • Green (AF) lamp flashes: camera unable to focus.	23 21
Pictures are blurred	• Camera shook during shot. Blurring caused by camera shake can be reduced by: ◆ Using the flash ◆ Using the Best Shot Selector (BSS) ◆ Using the self-timer with a tripod	 42 84 44
Randomly-spaced bright pixels ("noise") appear in image	• Shutter speed too slow. Noise can be reduced by: ◆ Using the flash ◆ Selecting (night portrait assist) mode, or selecting SCENE (scene) mode and choosing **Dusk/Dawn** or **Night landscape** (In these modes, noise reduction works automatically when shutter speed is low. Select an appropriate mode according to your shooting condition.)	 42 33, 36

Problem	Possible cause	👓
Flash does not fire	• Flash is off. Note that flash turns off automatically when: ◆ The mode dial is set to ⛰ (landscape assist; except for Group right and Group left), 🏃 (sports assist), 🎥 (movie), or SCENE (scene) mode with any of 🌅 (**Sunset**), 🌄 (**Dusk/Dawn**), 🌃 (**Night landscape**), 🏛 (**Museum**) or 🎆 (**Fireworks show**) selected in the scene menu ◆ **Continuous** is set to option other than **Single** ◆ **BSS** is **On** ◆ **Auto bracketing** is set	42 31, 32, 51, 35 - 38 82 84 88
Colors are unnatural	• White balance does not match light source.	79
Picture or voice memo can not be played back	• Picture or voice memo has been overwritten or renamed by computer or by another make of camera.	–
Copy can not be created using small picture, or crop	• Picture is a movie. Retouched copy can be created only for still pictures. • Picture is a retouched copy. • There is not enough free space in the memory or on the memory card to store new copy. Delete unwanted pictures from the memory to make free space.	105 55, 105 99
Can not zoom in on picture	• Picture is a movie. • Picture was created with small picture option. • Picture has been cropped to sizes of 320×240 pixels or smaller.	51 105 56
Provided software does not start when camera is connected or memory card inserted in card reader or card slot	• Camera is off. • EH-62A AC adapter kit (optional) is not properly connected, or battery is exhausted. • UC-E6 USB cable is not correctly connected, or card not properly inserted in card reader or card slot. • **USB** in the setup menu set to **PTP** when camera connected to computer running Windows 2000 Professional, Windows Millennium Edition (Me), or Windows 98 Second Edition (SE). • Camera is not registered in Device Manager (Windows only). See *provided software Reference Manual* (on CD) for further information.	12 124 62 60 –

Specifications

Type	E4200 digital camera
Effective pixels	4.0 million
CCD	1/1.8" high-density CCD; total pixels: 4.13 million
Image size (pixels)	• 2,272×1,704 [4M] • 2,048×1,536 [3M] • 1,600×1,200 [2M] • 1,024×768 [PC] • 640×480 [TV]
Lens	3× Zoom Nikkor
Focal length	F=7.8 - 23.4 mm (35-mm [135] camera-format equivalent: 38 - 114 mm)
f/-number	f/2.8 - f/4.9
Construction	Seven elements in six groups
Digital zoom	4×– (35-mm [135] camera-format equivalent: 450 mm)
Autofocus (AF)	Contrast-detect through-the-lens (TTL) AF, AF-assist illuminator
Focus range	30 cm (1') - ∞; macro mode 4 cm/1.6" (W) - ∞
Focus area selection	Auto (five-area automatic selection), Manual (99-area manual selection), Off (center focus area selection)
AF-assist illuminator	CLASS 1 LED PRODUCT (IEC60825-1 Edition 1.2^{-2001}) Maximum output: 2250µW
Viewfinder	Real-image zoom viewfinder with LED indication
Magnification	0.31 - 0.77 ×
Frame coverage	Approximately 75% holizontal and 75% vertical
Monitor	1.5", 110,000-dot, low temperature polysilicon TFT transflective LCD with brightness adjustment, Advanced brightness control LCD
Frame coverage (shooting mode)	Approximately 100% horizontal and 100% vertical

Storage media	Internal memory (approximately 12MB)/SD (Secure Digital) Memory cards
File system	Compliant with **D**esign Rule for **C**amera **F**ile System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
File formats	Compressed: JPEG-baseline-compliant Movies: Quick Time
Exposure	
Metering	Matrix, Center-weighted, Spot
Exposure control	Programmed auto exposure with exposure compensation (-2.0 - +2.0EV in steps of 1/3EV), Auto bracketing
Range	W: +1 - +15.8EV T: +2.6 - +17.4EV (Sensitivity: Auto)
Shutter	Mechanical and charge-coupled electronic shutter
Speed	4 - $^1/_{2,000}$s
Aperture	Electronically-controlled preset aperture
Range	Two steps (f/2.8 and f/4.8 [W])
Sensitivity	Approximately equivalent to ISO 80, 100, 200, 400; Auto (auto gain to ISO 200 equivalent)
Self-timer	Ten-second, three-second duration
Built-in Speedlight	
Range (approx.)	0.3 - 4.5 m/1' - 14'9" (W) 0.3 - 3.5 m/1' - 11'6" (T) (Sensitivity: Auto)
Flash control	Sensor flash system
Interface	USB
Video output	Can be selected from NTSC and PAL
I/O terminals	Audio/video (A/V) out, digital I/O (USB)

Power sources	- One rechargeable Nikon EN-EL5 rechargeable lithium-ion battery (supplied) - EH-62A AC adapter kit (available separately)
Approximate battery life	Approximately 150 shots (EN-EL5). Based on the CIPA Standard.
Dimensions (W×H×D)	88×60×36.5 mm (3.46"×2.4"×1.44") (excepting projection parts)
Approximate weight	155 g (5.5 oz) without battery or memory card
Operating environment	
Temperature	0 - 40°C (32 - 104°F)
Humidity	Less than 85% (no condensation)

Design Rule for Camera File System (DCF)

Your camera conforms to the **D**esign Rule for **C**amera **F**ile System (DCF), a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.

Exif Version 2.2

Your camera supports Exif (**Ex**changeable **I**mage **F**ile Format for Digital Still Cameras) version 2.2, a standard that allows information stored with pictures to be used for optimal color reproduction when images are output on Exif-compliant printers.

Index

Symbols

📷 (auto shooting) mode, 6, 17 - 22
🗑 (delete) button, 3, 52, 53, 55, 57
IN (internal memory) icon, 17
◢ (landscape assist) mode, 6, 27, 31
⎕ (memory card) icon, 17
🎥 (movie) mode, 6
★ (night portrait assist) mode, 6, 27, 33, 134
▶ (play) button, 3, 13, 24
👤 (portrait assist) mode, 6, 27, 29
🏃 (sports assist) mode, 6, 27, 32, 135
🎤 (voice memo) icon, 57
⌛ (wait) icon, 22
⚡ lamp, *see* Lamp, red (⚡)

Numerics

5 shot buffer, 82

A

AC adapter kit, i, ii, v, 9, 68, 123, 138
AF area mode, 73
AF lamp, *see* Lamp, green (AF)
AF/AE lock, 7, 23, 91
AF●, 4, 21, 129
AF-assist illuminator, 2, 22
Assist modes, 27, 28
Audio/video (A/V) cable (EG-CP14), 59
Audio/video (A/V) out connector, 3
Auto bracketing, 73, 88
Auto off, 13, 109, 119
Auto power off, 13
Auto transfer, 96, 102
Autofocus, 21, 94
Auto-focus mode, 73, 94

B

Back light, 27, 38
Backlit, 127
Backlit subject, 34, 38, 42
Battery, i, ii, v, 8 - 9, 12, 128, 138
  charging, 8
  EN-EL5, ii, 8, 138
Battery level, 12
Beach/Snow, 27, 35
Best Shot Selector, 37, 84, 134
Blur, 22, 33, 35, 43, 44, 84, 134
Brightness, 109, 117
BSS, *see* Best Shot Selector

C

Camera shake, 35
Camera strap, 2
Clock battery, 16
Clock, *see* **Date**
Close up, 27, 37
Close-ups, 42, 46
Cloudy, 79
Compression, 76
Computer, 60
Continuous, 73, 82
Contrast, 85
Copy, 27, 96, 106
Cropping pictures, 55, 56

D

Date, 14 - 16, 109, 112 - 114, 116
  correct time and date, 14
Date imprint, 67, 109, 116
Daylight, 79
DaylightSaving, 14
DCF, *see* Design rule for Camera File System
Delete, 96, 99 - 100
Deleting pictures, 53, 99 - 100
  all pictures, 100
  during shooting, 25
  in full-screen playback, 25
  selected pictures, 99 - 100
Design rule for Camera File System, 137, 138
Digital Print Order Format, 65, 67, 137
Digital zoom, 19, 20
DPOF, *see* Digital Print Order Format
DSCN, 26
Dusk/Dawn, 27, 36, 134

E

EH-62A, *see* AC adapter kit
E-mail, 75, 77, 105
EN-EL5, *see* Battery
Error messages, 129 - 132
Exif 2.2, 137, 138
Exposure compensation, 47
Extension, 26

F

File name, 26
File numbering, 26, 122
Fill flash, 42
Fireworks show, 27, 38, 135
Firmware version, 109, 122
Flash, ii, 2, 42 - 43, 134, 137
Flash mode, 17, 42, 43
  anytime flash, 42
  auto with red-eye reduction, 42
  flash cancel, 42
  slow sync, 42
Fluorescent, 79
Focus, 7, 21 - 22, 134
Focus area
  Autofocus, 91
Folder name, 26
Format, 11, 109
  internal memory, 119
  memory card, 119, 120
Format memory/card, *see* Format
Framing assist, 6, 27, 28
Framing pictures, 19 - 20, 28

H

Histogram, 54

I

Image adjustment, 73, 85
Image mode, 73, 75
    image quality, 17, 75
    image size, 17, 77
Image sharpening, 73, 86
Incandescent, 79
ISO, 22

J

JPEG, 26, 137

L

Lamp, green (AF), 3, 7, 12, 21, 134
Lamp, red (⚡), 3, 12, 21, 134
Language, 12, 14, 109, 120
language, choosing, 14
Lens, 2, 126, 127, 136

M

Macro mode, 46
Memory card, ii, 10 - 11, 123, 137
    approved, 123
    capacity of, 17, 49
    formatting, 11, 119 - 120
    insertion and remove of, 10 - 11
MENU button, 3
Metering, 73, 81
MH-61 battery charger, 8
Microphone, 2
Mode dial, 2, 6
Monitor, ii, 3, 4, 5, 19 - 20, 127, 133, 136
    indicators in, 4 - 5, 133
    turning on and off, 5
Monitor brightness, 117
Monitor settings, 109, 115
MOV, *see* Movies
Movie menu, the
    small size, 49
    smaller size, 49
    TV movie, 49
Movies, 51 - 52, 137
    recording, 51
    viewing, 52
Multi selector, 3, 7
Multi-shot 16, 82
Museum, 27, 37, 135

N

Night landscape, 27, 36, 134
Noise reduction, 73, 95
NTSC, *see* **Video mode**
Number of exposures remaining, 17, 18, 78

O

On/off, *see* Power switch

P

PAL, *see* **Video mode**
Panorama assist, 27, 39, 40
Party/Indoor, 27, 35
PictBridge, 64, 68
Playback menu, the, 96 - 108
Playing pictures back, 24 - 26
    full-screen, 24 - 26, 53
    movies, 52
    on TV, 59
    thumbnail, 53
    zoom, 55
Power switch, 2, 12 - 13
Power-on lamp, 2, 12 - 13, 17
Print, 69
Print set, 65 - 67, 72, 96
Printer, 68, 69
Printing pictures, 64 - 67
    see also **Date imprint**, Digital Print Order Format
Protect, 96, 101
Protected pictures, 100, 101

Q

Quality, *see* **Image mode**
Quick Time, *see* Movies

R

Reset all, 109, 121
Resizing pictures, 111, 135
RSCN, 26

S

Saturation, 90
Saturation control, 73
SCENE (scene) mode, 6, 27, 34 - 41
Secure Digital (SD), *see* Memory card
Self-portraits, 44
Self-timer, 44, 45, 137
Self-timer lamp, 2, 45
Sensitivity, 22, 73, 87
SETUP (setup) mode, 6, 109 - 122
Setup menu, the, 109 - 122
Shade, 79
Shooting menu, the, 73 - 95
Shutter-release button, 2, 7, 21
Shutter-release delay, *see* Self-timer
Single, 82
Size, *see* **Image mode**
Slide show, 96, 97 - 98
Small pic., *see* Small picture
Small picture, 96, 105
Smear, 127
Software (provided), 16, 60, 64
Sound
    button sound, 118
    settings, 118
    shutter sound, 118
    start-up sound, 118
Sound settings, 57, 109
Speaker, 3
Speedlight, *see* Flash
SSCN, 26
Standby mode, 13, 119
Strap, camera, i, 2
Sunset, 27, 35
Support information, v

T

T button, *see* Zoom buttons
Television, 59, 121
    connecting to, 59
    taking pictures for display on, 49
Thumbnail playback, 53
Time zone, 112
Transfer
    making pictures for, 102 - 104
Tripod, 3, 35, 44, 129

U

USB, 3, 60, 109
    cable (UC-E6), 62, 68
    connector, 3

V

- VCR, 59, 121
- Video cable (EG-CP14), 59
- **Video mode**, 59, 109, 121
- Video output, 137
- Viewfinder, 2, 3, 20
- Viewing picture, 53
- Voice memo, 57
- Volume, 52, 57, 118

W

- W button, *see* Zoom buttons
- WAV, 26
- **Welcome screen**, 109, 110
- **White balance**, 73, 79
  - cloudy, 79
  - daylight, 79
  - fluorescent, 79
  - incandescent, 79
  - preset, 80
  - shade, 79
  - speedlight, 79
- Wide angle, *see* Zoom

Z

- Zoom
  - digital, 136
  - optical, 19 - 20
  - playback, 55, 135
- Zoom buttons
  - 🔍 (T) button, 3, 19, 53, 55
  - ▦ (W) button, 3, 19, 53, 55

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